

TIROS VII ATTITUDE SUMMARY

(ORBITS 8000 - 11850)

VOLUME III

NASA CR 71081

ADRIENNE ZENUK

ARACON GEOPHYSICS CO.
 CONCORD, MASSACHUSETTS
 A DIVISION OF ALLIED RESEARCH ASSOCIATES, INC.

DECEMBER 1965

THIRD TECHNICAL SUMMARY REPORT

UNDER

CONTRACT NO. NAS 5-9547

N66-19506

(ACCESSION NUMBER)
 176
 (PAGES)
 CR 71081
 (NASA CR OR TMX OR AD NUMBER)

(THRU)
 1
 (CODE)
 [REDACTED] 30
 (CATEGORY)

GPO PRICE \$ _____

CFSTI PRICE(S) \$ _____

Hard copy (HC) \$ 5.00

Microfiche (MF) \$ 1.00

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

GODDARD SPACE FLIGHT CENTER
 AERONOMY AND METEOROLOGY DIVISION
 GREENBELT, MARYLAND

TIROS VII ATTITUDE SUMMARY

(ORBITS 8000 - 11850)

VOLUME III

ADRIENNE ZENUK

ARACON GEOPHYSICS CO.
CONCORD, MASSACHUSETTS
A DIVISION OF ALLIED RESEARCH ASSOCIATES, INC.

DECEMBER 1965

THIRD TECHNICAL SUMMARY REPORT

UNDER

CONTRACT NO. NAS 5-9547

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GODDARD SPACE FLIGHT CENTER
AERONOMY AND METEOROLOGY DIVISION
GREENBELT, MARYLAND

TABLE OF CONTENTS

		<u>Page</u>
SECTION 1	INTRODUCTION	1
SECTION 2	GRAPHICAL PRESENTATION OF DATA	3
APPENDIX A	OPERATIONAL DEFINITIVE ATTITUDE DATA TABULATIONS	9
APPENDIX B	TIROS VII SUBPOINT TRACK	159
REFERENCES		163

LIST OF ILLUSTRATIONS

Figure No.

2-1	TIROS VII Operational Definitive Attitude Parameters (n_o , t_o)	4
2-2	TIROS VII Operational Definitive Attitude Parameters (R.A., Dec.)	6
2-3	TIROS VII Attitude Parameters (n_o , t_o) at 1200 UT	8
B-1	TIROS VII Subpoint Track	161

LIST OF TABLES

Table No.

A-1	ODA Table Headers	10
A-2	Operational Definitive Attitude Data	12
B-1	Sample Orbital Elements	160

SECTION 1

INTRODUCTION

This report provides TIROS VII operational Definitive Attitude Data for orbits 8000-11850, covering the period 11 December 1964 to 29 August 1965. Because of the extended lifetime of TIROS VII, considerably more attitude data are available than from previous TIROS satellites. Consequently, it has become necessary to publish these data in separate volumes. Similar data for the first 8000 orbits of TIROS VII were presented in Volumes I and II of this series.*

It was the responsibility of ARACON Geophysics Company during the TIROS VII operations to provide definitive and predictive attitude on satellite spin-axis (camera) orientation. Attitude determinations were made by ARACON personnel at the Data Acquisition Stations as rapidly as possible and compiled daily in the form of an Operational Definitive Attitude Message (ODAM) for teletype transmission to the various users. This report summarizes the daily ODAM transmissions in graphical and tabular form.

Volume I and Appendix A of Reference 1 provide detailed descriptions of the sources and procedures used in derivation of the attitude data presented in this report.

This report represents the final volume of the TIROS VII data to be published by ARACON Geophysics Company. Effective 1 September 1965, this function is to be assumed by the NASA.

* Goldshlak, L. and A. Zenuk, 1965: TIROS VII Attitude Summary, Volume I, Fifth Technical Summary Report under Contract No. NAS 5-1204, ARACON Geophysics Company, Concord, Massachusetts

Zenuk, A., 1965: TIROS VII Attitude Summary, Volume II, Second Technical Summary Report under Contract No. NAS 5-9547, ARACON Geophysics Company, Concord, Massachusetts

SECTION 2

GRAPHICAL PRESENTATION OF DATA

The data contained in the daily ODAM transmissions were compiled and are presented in this section in graphical form. Figure 2-1 shows the progress of n_o (dashed) and t_o (solid) plotted against orbit number.* Figure 2-2 presents the attitude data in celestial coordinates (right ascension and declination) plotted against orbit number.

In both figures, the solid vertical lines indicate changes in the Magnetic Attitude Control (MAC) Switch position;² the actual switch position is indicated in Roman numerals near the top of the diagram. Dashed vertical lines show satellite spinup. Precise orbit numbers during which MAC switch changes and spinups occurred may be obtained from Table A-2.

Figure 2-3 is a graph of n_o vs. t_o . These parameters are plotted for each Julian Day (labeled every fifth day) at 1200 UT for Julian Days 541 through 801.

* n_o is the minimum nadir angle of the satellite camera axis during an orbit; t_o is the time in minutes, after ascending node, at which n_o occurs.

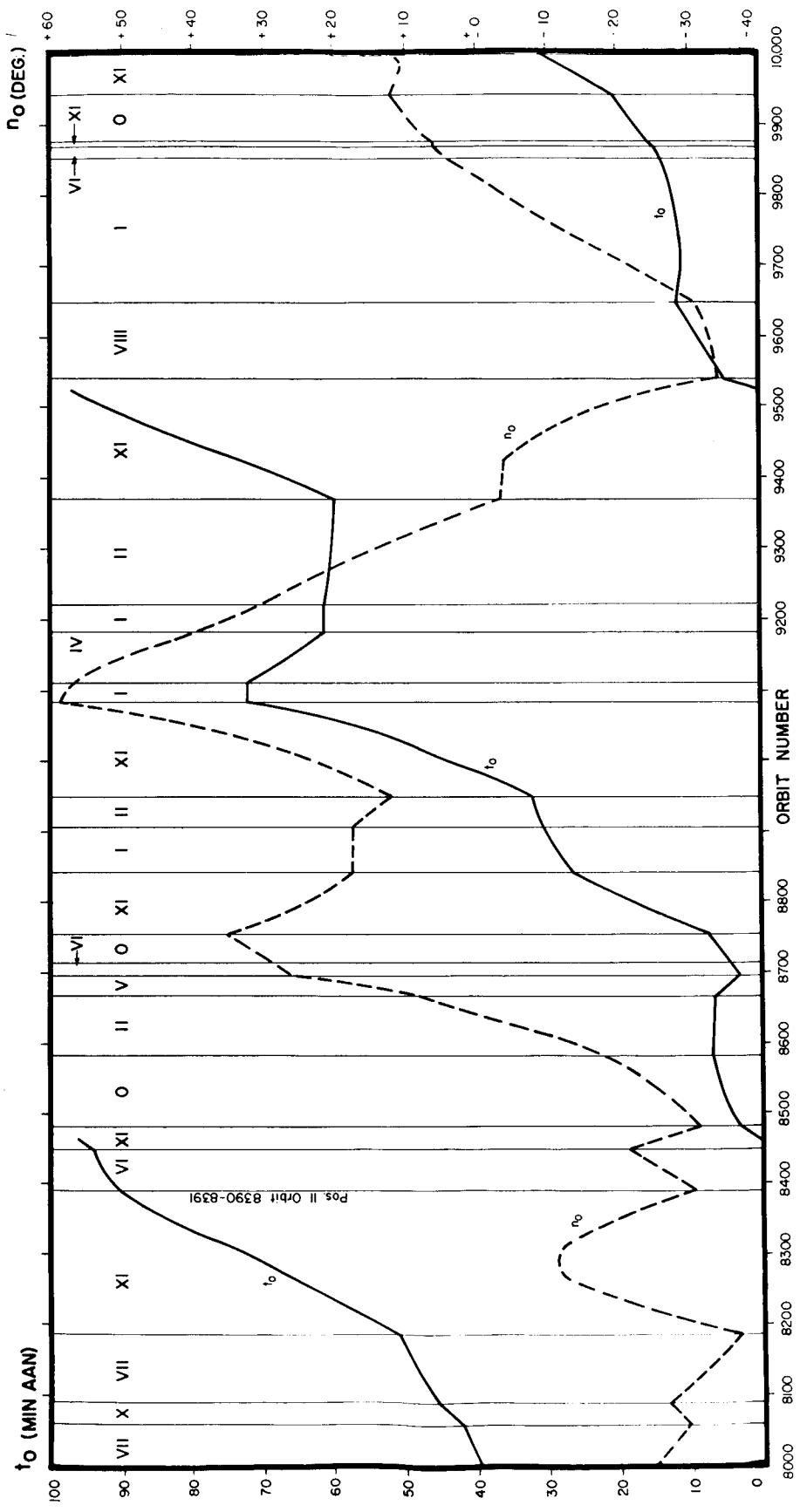
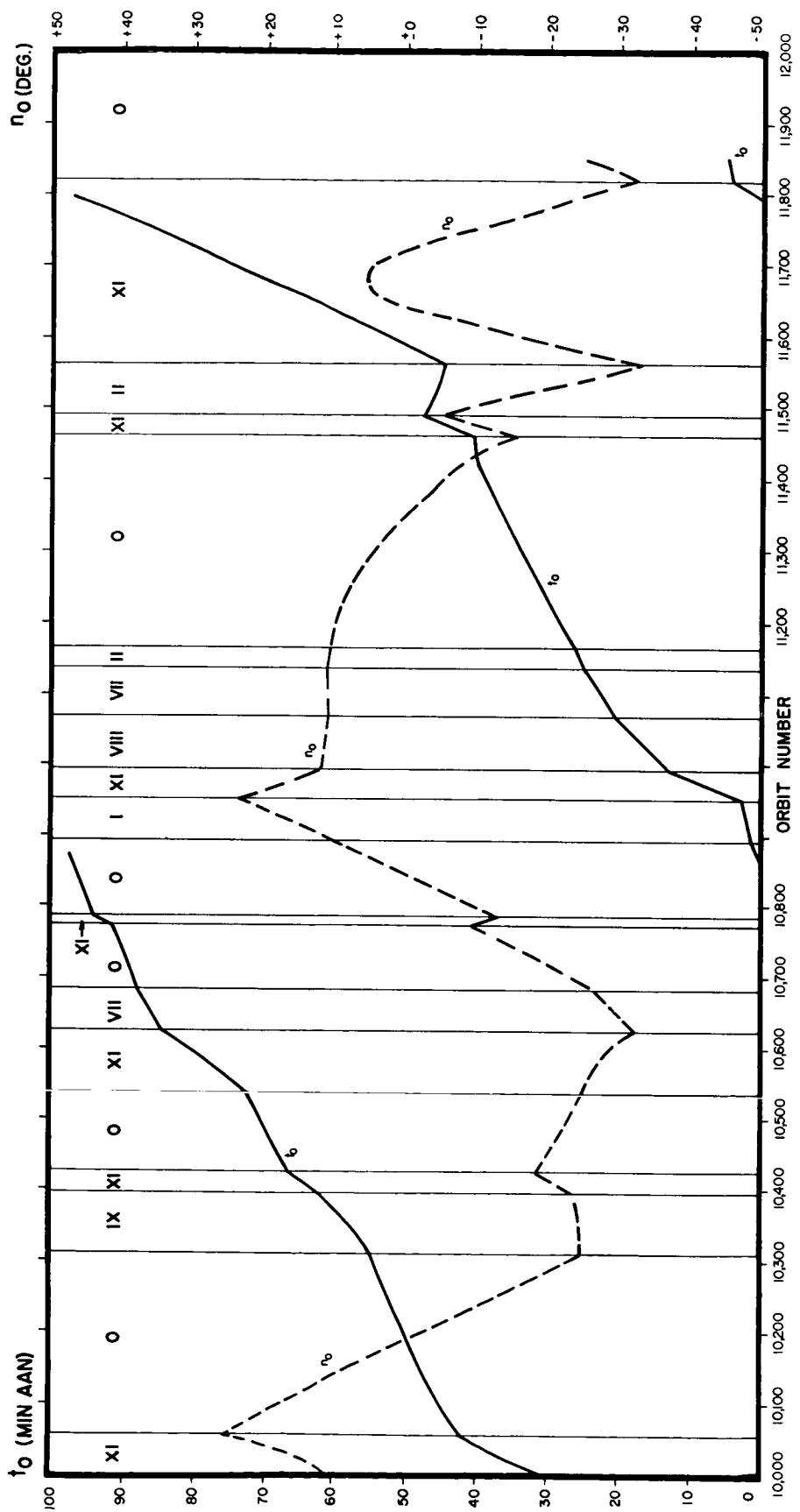


FIG. 2-1

TIROS VII OPERATIONAL DEFINITIVE ATTITUDE PARAMETERS (n_0 , t_0)

FIG. 2-1 (CONT'D)



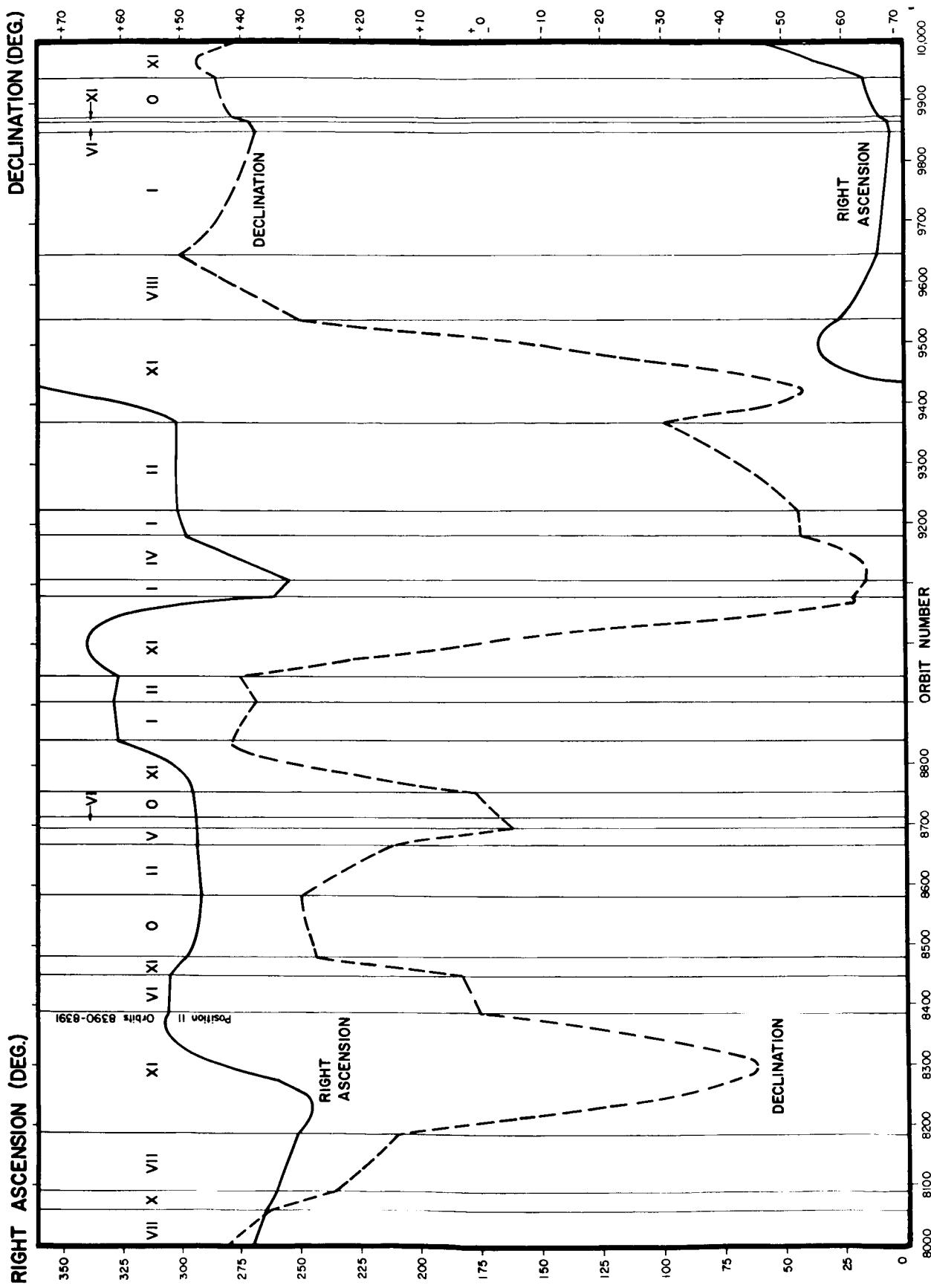


FIG. 2-2 TIROS VII OPERATIONAL DEFINITIVE ATTITUDE PARAMETERS (R.A., Dec.)

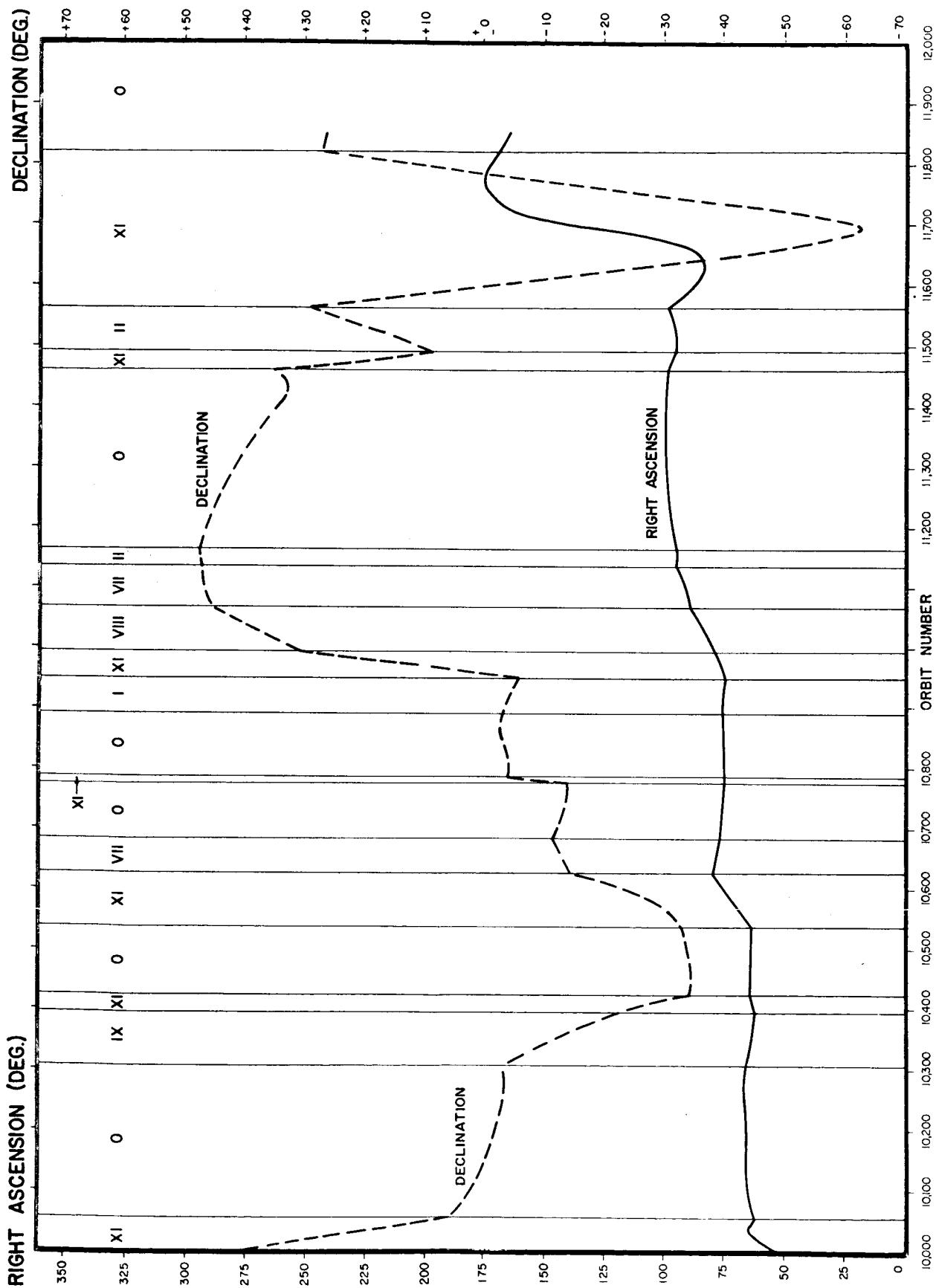
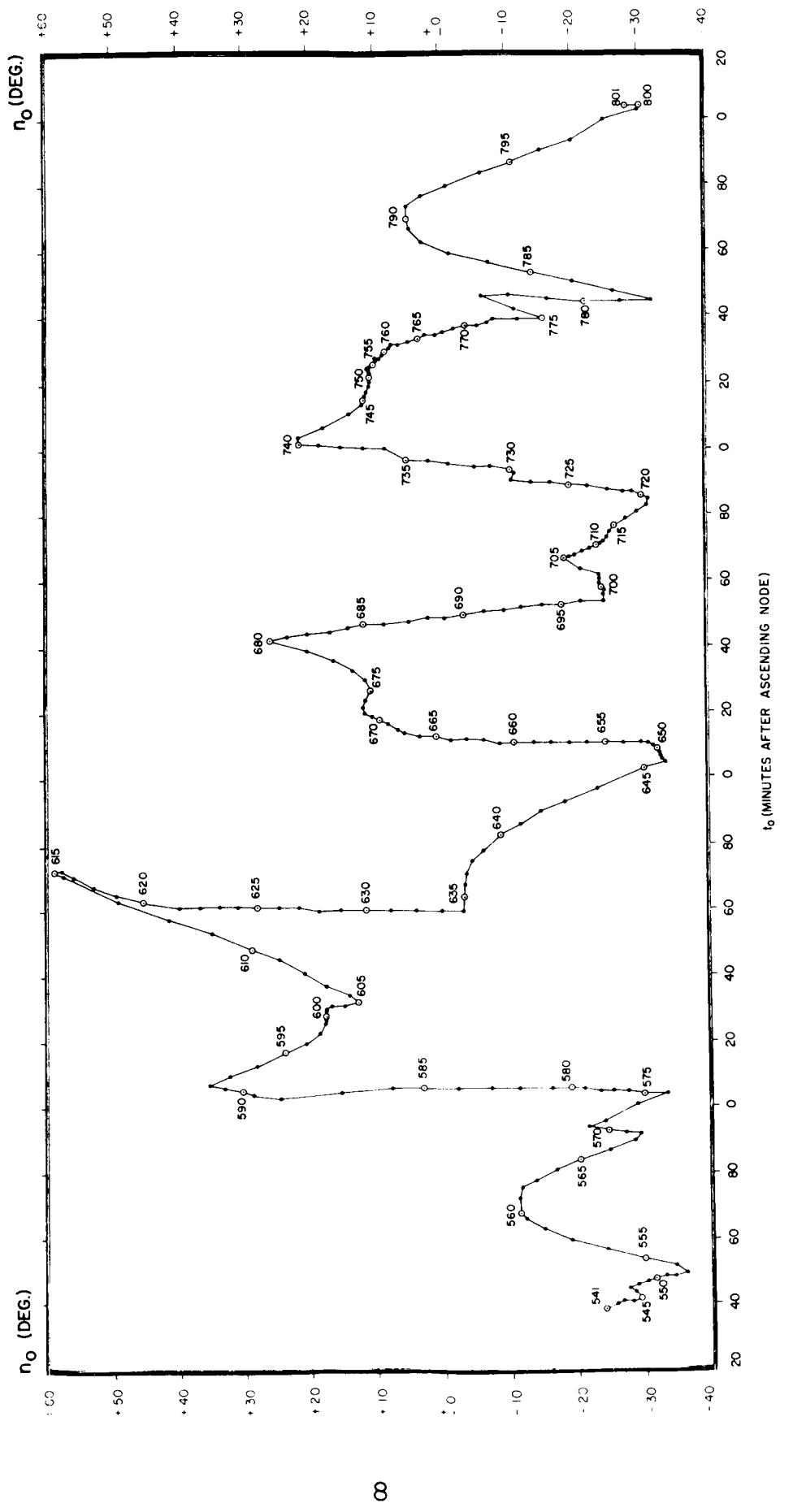


FIG. 2-2 (CONT'D) TIROS VII OPERATIONAL DEFINITIVE ATTITUDE PARAMETERS (R.A., Dec.)



TIROS VII ATTITUDE PARAMETERS (n_o, t_o) AT 1200 UT

FIG. 2-3

APPENDIX A

OPERATIONAL DEFINITIVE ATTITUDE DATA TABULATIONS

A.1 NOMENCLATURE

This appendix contains the Operational Definitive Attitude (ODA) data as determined by ARACON Geophysics on-site personnel during orbits 8000-11850 of the TIROS VII operational lifetime. No attempt has been made to apply smoothing techniques as a result of hindsight. These data were extracted from the ODAM which was issued daily during the useful lifetime of the satellite.

Attitude data sources, reliability factors, and attitude determination techniques were discussed in Volume I of this series of reports (see Introduction).

A word of explanation concerning nomenclature is offered here to potential users attempting to correlate data presented in these tables with TIROS film strips. Some of the documentary literature for TIROS television pictures use two orbit numbers for identifying a film strip (i.e., Ref. 3 and 4). As an example, an orbital designation for a film strip such as 91/90 or 91 R/0 90 or 90/91 indicates that pictures were taken during orbit number 90, stored on video tape in the satellite, and were then played back during orbit number 91. Whenever two orbit numbers identify a film strip, and the film strip is designated as "TAPE" mode, the lower orbit number should be used to locate corresponding attitude data. It is also possible to have pictures (DIRECT mode) on the film strip which were obtained during the higher stated orbit number - thus requiring two sets of attitude data for pictures on the film strip.

Errors caused by selecting attitude data for an orbit adjacent to a desired orbit will be negligible for most purposes. However, selection of inappropriate ascending node data will cause marked discrepancies in location of picture images relative to the earth. Table A-1 provides a brief explanation of the abbreviations appearing in the Header of the ODA table (A-2).

TABLE A-1
ODA TABLE HEADERS

Column	Header	Explanation
a	DATE	Greenwich Mean date on which the ascending node of the orbit in column c occurred.
b	JULIAN DAY	System Day. Also J-Day on ODAM. Day 0 = Launch Day (19 June 1963)
c	ORBIT NUMBER	Labeled consecutively with each vehicular crossing of the earth's equator from south to north. Launch and injection are considered to occur on orbit zero.
d	ASCENDING NODE	Greenwich Mean Time and longitude at which the satellite crossed the equator from south to north.
e	t_o	Attitude parameters in orbital coordinate system. Commonly referred to as TOT (time of occurrence of n_o) and NON (the minimum nadir angle). t_o stated in minutes after ascending node (Min AAN).
f	n_o	
g	RA SA	Right ascension and declination of satellite spin axis. These values represent the transformation of t_o and n_o into the celestial coordinate system.
h	DEC SA	
i	GAMMA	Angle between spatial vectors of the satellite spin axis and the satellite-sun line.

A.2 TIROS VII OPERATIONAL DEFINITIVE ATTITUDE DATA

The ODA table (A-2) is divided into two basic sections. Columns "a" through "d" contain data obtained directly from the NASA Computation Center via teletype during the TIROS VII operations. Columns "e" through "i" contain the "best-fit" attitude parameters determined on-site by ARACON Geophysics.

The attitude data are presented in two coordinate systems: orbital (n_o, t_o) and celestial (right ascension and declination).

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e t _o (Min AAN) (Hr Min Sec)	f n _o (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
December 11, 1964	541	8000	164.37E	13 07 37				
"	541	8001	139.70E	14 45 01	39.3	-24.8	267.8	41.1 64.7
"	541	8002	115.03E	16 22 25	39.3	-24.9	267.7	40.9 64.5
"	541	8003	090.36E	17 59 49				
"	541	8004	065.69E	19 37 14				
"	541	8005	041.02E	21 14 38				
December 11, 1964	541	8006	016.34E	22 52 02				
December 12, 1964	542	8007	008.32W	00 29 26				
"	542	8008	032.99W	02 06 50	39.6	-25.4	267.3	40.3 63.8
"	542	8009	057.66W	03 44 14				
"	542	8010	082.33W	05 21 38				
"	542	8011	107.00W	06 59 02				
"	542	8012	131.67W	08 36 26				
"	542	8013	156.34W	10 13 50				
"	542	8014	178.98E	11 51 14	39.9	-25.9	266.8	39.6 63.0
"	542	8015	154.31E	13 28 38				
"	542	8016	129.64E	15 06 02	40.0	-26.2	266.6	39.2 62.7
"	542	8017	104.96E	16 43 26				
"	542	8018	080.29E	18 20 50				
"	542	8019	055.62E	19 58 14				
"	542	8020	030.95E	21 35 38				
December 12, 1964	542	8021	006.28E	23 13 02				
December 13, 1964	543	8022	018.38W	00 50 26				
December 13, 1964	543	8023	043.05W	02 27 51	40.3	-26.7	266.1	38.5 61.9

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c CRBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
December 13, 1964								
"	543	8024	067.72W	04 05 15				
"	543	8025	092.40W	05 42 39				
"	543	8026	117.07W	07 20 03				
"	543	8027	141.74W	08 57 27				
"	543	8028	166.41W	10 34 51	40.5	-27.1	265.7	37.9
"	543	8029	168.91E	12 12 15				
"	543	8030	144.24E	13 49 39				
"	543	8031	119.57E	15 27 03				
"	543	8032	094.90E	17 04 27				
"	543	8033	070.23E	18 41 51				
"	543	8034	045.55E	20 19 15				
"	543	8035	020.88E	21 56 39				
December 13, 1964								
"	543	8036	003.78W	23 34 03				
December 14, 1964								
"	544	8037	028.45W	01 11 27	41.0	-27.8	264.8.	36.9
"	544	8038	053.12W	02 48 51				
"	544	8039	077.79W	04 26 15				
"	544	8040	102.46W	06 03 39				
"	544	8041	127.13W	07 41 03				
"	544	8042	151.80W	09 18 27				
"	544	8043	176.47W	10 55 51	41.2	-28.3	264.3	36.2
"	544	8044	158.84E	12 33 15				
"	544	8045	134.17E	14 10 40	41.3	-28.5	264.1	36.0
"	544	8046	109.50E	15 48 04	41.4	-28.6	264.1	35.9
December 14, 1964								
"	544	8047	084.83E	17 25 28				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
December 14, 1964	544	8048	060.16E	19 02 52				
"	544	8049	035.49E	20 40 16				
"	544	8050	010.82E	22 17 40				
December 14, 1964	544	8051	013.84W	23 55 04				
December 15, 1964	545	8052	038.52W	01 32 26	41.7	-29.1	263.5	35.2 58.5
"	545	8053	063.19W	03 09 50				
"	545	8054	087.86W	04 47 14				
"	545	8055	112.54W	06 24 38				
"	545	8056	137.21W	08 02 02				
"	545	8057	161.88W	09 39 26				
"	545	8058	173.44E	11 16 50	42.0	-29.5	262.9	34.5 57.8
"	545	8059	148.77E	12 54 14	42.0	-29.6	262.8	34.4 57.7
MAC SWITCH CHANGED FROM POSITION 7 TO 10								
"	545	8060	124.10E	14 31 38	42.1	-29.5	262.6	34.1 57.3
"	545	8061	099.43E	16 09 02	42.2	-29.5	262.4	33.7 57.0
"	545	8062	074.76E	17 46 26				
"	545	8063	050.08E	19 23 50				
"	545	8064	025.41E	21 01 14				
December 15, 1964	545	8065	000.74E	22 38 38				
December 16, 1964	546	8066	023.91W	00 16 02	42.8	-29.1	261.6	31.8 55.2
"	546	8067	048.59W	01 53 27				
"	546	8068	073.26W	03 30 50				
"	546	8069	097.93W	05 08 15				
December 16, 1964	546	8070	122.60W	06 45 39				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
December 16, 1964								
"	546	8071	147.27W	08 23 03				
"	546	8072	171.94W	10 00 27				
"	546	8073	163.38E	11 37 51	43.6	-28.7	260.5	29.2
"	546	8074	138.71E	13 15 15				
"	546	8075	114.03E	14 52 39	43.8	-28.6	260.2	28.5
"	546	8076	089.36E	16 30 03				
"	546	8077	064.69E	18 07 27				
"	546	8078	040.02E	19 44 51				
"	546	8079	015.35E	21 22 15				
December 16, 1964								
"	546	8080	009.31W	22 59 39				
December 17, 1964								
"	547	8081	033.98W	00 37 03	44.5	-28.2	259.3	26.3
"	547	8082	058.65W	02 14 27				
"	547	8083	083.33W	03 51 51				
"	547	8084	108.00W	05 29 15				
"	547	8085	132.67W	07 06 39				
"	547	8086	157.34W	08 44 03				
"	547	8087	177.98E	10 21 27				
"	547	8088	153.31E	11 58 51	45.3	-27.8	258.2	23.7
MAC SWITCH CHANGED FROM POSITION 10 TO 7								
"	547	8089	118.64E	13 36 15				
"	547	8090	103.97E	15 13 39	45.5	-27.9	258.0	23.4
"	547	8091	079.30E	16 51 03				
"	547	8092	054.62E	18 28 27				
December 17, 1964								
"	547	8093	029.95E	20 05 51				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f _o n _o (Min AAN) (Deg)	g RASA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
December 17, 1964	547	8094	005. 29E	21 43 15				
December 17, 1964	547	8095	019. 38W	23 20 39				
December 18, 1964	548	8096	044. 05W	00 58 03	45. 8	-28. 4	257. 4	22. 7
"	548	8097	068. 72W	02 35 27				
"	548	8098	093. 39W	04 12 51				
"	548	8099	118. 06W	05 50 15				
"	548	8100	142. 73W	07 27 39				
"	548	8101	167. 40W	09 05 03				
"	548	8102	167. 92E	10 42 27	46. 1	-29. 0	257. 0	22. 0
"	548	8103	143. 25E	12 19 51				
"	548	8104	118. 57E	13 57 15	46. 2	-29. 2	256. 8	21. 7
"	548	8105	093. 90E	15 34 40				
"	548	8106	069. 23E	17 12 04				
"	548	8107	044. 56E	18 49 28	46. 4	-29. 5	256. 6	21. 4
"	548	8108	019. 89E	20 26 52				
"	548	8109	004. 77W	22 04 16				
December 18, 1964	548	8110	029. 44W	23 41 40				
December 19, 1964	549	8111	054. 11W	01 19 04				
"	549	8112	078. 78W	02 56 28				
"	549	8113	103. 46W	04 33 52				
"	549	8114	128. 13W	06 11 16				
"	549	8115	152. 80W	07 48 40				
"	549	8116	177. 47W	09 26 04	46. 9	-30. 4	255. 9	20. 4
"	549	8117	157. 85E	11 03 28				
"	549	8118	133. 18E	12 40 52	47. 0	-30. 5	255. 7	20. 1
December 19, 1964	549	8119	108. 51E	14 18 16				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
December 19, 1964	549	8120	083.84E	15 55 40				
"	549	8121	059.17E	17 33 04				
"	549	8122	034.50E	19 10 28				
"	549	8123	009.82E	20 47 52				
December 19, 1964	549	8124	014.84W	22 25 16				
December 20, 1964	550	8125	039.51W	00 02 40				
"	550	8126	064.18W	01 40 04	47.4	-31.3	255.0	19.2
"	550	8127	088.85W	03 17 88				44.6
"	550	8128	113.52W	04 54 52				
"	550	8129	138.19W	06 32 16				
"	550	8130	162.86W	08 09 40				
"	550	8131	172.46E	09 47 04	47.7	-31.8	254.6	18.7
"	550	8132	147.79E	11 24 28				44.3
"	550	8133	123.12E	13 01 52				
"	550	8134	098.44E	14 39 16				
"	550	8135	073.77E	16 16 40	47.9	-32.1	254.2	18.2
"	550	8136	049.10E	17 54 04				44.0
"	550	8137	024.43E	19 31 28				
"	550	8138	000.23W	21 08 52				
December 20, 1964	550	8139	024.90W	22 46 16	48.1	-32.5	253.9	17.7
December 21, 1964	551	8140	049.57W	00 23 40				43.8
"	551	8141	074.24W	02 01 04				
"	551	8142	098.91W	03 38 28				
"	551	8143	123.59W	05 15 52				
"	551	8144	148.26W	06 53 16				
December 21, 1964	551	8145	172.93W	08 30 40				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Min AAN) (Hr Min Sec)	f n _o (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
December 21, 1964	551	8146	162.39E	10 08 04	48.5	-33.2	253.3	17.0
"	551	8147	137.72E	11 45 29				43.5
"	551	8148	113.05E	13 22 53	48.6	-33.4	253.2	16.8
"	551	8149	088.38E	15 00 17				43.4
"	551	8150	063.71E	16 37 41				
"	551	8151	039.04E	18 15 05				
"	551	8152	014.37E	19 52 29				
"	551	8153	010.29W	21 29 53				
December 21, 1964	551	8154	034.97W	23 07 17	49.0	-34.0	252.7	16.1
								43.1
December 22, 1964	552	8155	059.66W	00 44 43				
"	552	8156	084.33W	02 22 07				
"	552	8157	109.00W	03 59 31				
"	552	8158	133.68W	05 36 55				
"	552	8159	158.35W	07 14 19				
"	552	8160	176.97E	08 51 43				
"	552	8161	152.30E	10 29 07	49.3	-34.7	252.1	15.5
"	552	8162	127.63E	12 06 31				43.0
"	552	8163	102.96E	13 43 55	49.4	-34.9	252.0	15.3
"	552	8164	078.29E	15 21 19				42.9
"	552	8165	053.62E	16 58 43				
"	552	8166	028.95E	18 36 07	49.6	-35.2	251.7	15.0
"	552	8167	004.28E	20 13 31				42.8
"	552	8168	020.39W	21 50 55				
December 22, 1964	552	8169	045.06W	23 28 19				
December 23, 1964	553	8170	069.73W	01 05 43				
December 23, 1964	553	8171	094.40W	02 43 07				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
December 23, 1964								
"	553	8172	119.07W	04 20 31				
"	553	8173	143.74W	05 57 55				
"	553	8174	168.41W	07 35 19				
"	553	8175	166.91E	09 12 43	50.1	-36.1	251.0	14.1
"	553	8176	142.24E	10 50 08				
"	553	8177	117.57E	12 27 32	50.2	-36.3	250.8	14.0
"	553	8178	092.90E	14 04 56				
"	553	8179	068.22E	15 42 20				
"	553	8180	043.55E	17 19 44				
"	553	8181	018.88E	18 57 08				
"	553	8182	005.78W	20 34 32				
"	553	8183	030.45W	22 11 56				
"	553	8184	055.12W	23 49 20				
December 24, 1964								
"	554	8185	079.79W	01 26 44				
"	554	8186	104.46W	03 04 08	50.6	-37.0	249.8	13.2
MAC SWITCH CHANGED FROM POSITION 7 TO 11								
"	554	8187	129.13W	04 41 32				
"	554	8188	153.80W	06 18 56				
"	554	8189	178.48W	07 56 20				
"	554	8190	156.84E	09 33 44	51.3	-35.7	248.8	10.6
"	554	8191	132.17E	11 11 08				
"	554	8192	107.50E	12 48 32	51.7	-35.0	248.4	9.3
"	554	8193	082.83E	14 25 56				
"	554	8194	058.16E	16 03 20				
"	554	8195	033.49E	17 40 44				
"	554	8196	008.82E	19 18 08				
"	554	8197	015.85W	20 55 32				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t_o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
December 24, 1964	554	8198	040.52W	22 32 56				
December 25, 1964	555	8199	065.19W	00 10 20	53.0	-32.6	246.8	4.7 38.4
"	555	8200	089.86W	01 47 44				
"	555	8201	114.53W	03 25 08				
"	555	8202	139.20W	05 02 32				
"	555	8203	163.87W	06 39 56				
"	555	8204	171.45E	08 17 20				
"	555	8205	146.78E	09 54 44				
"	555	8206	122.11E	11 32 08	54.3	-30.1	245.5	-0.2 36.5
"	555	8207	097.44E	13 09 32				
"	555	8208	072.76E	14 46 57				
"	555	8209	048.09E	16 24 21				
"	555	8210	023.42E	18 01 45				
"	555	8211	001.24W	19 39 09				
"	555	8212	025.91W	21 16 33				
December 25, 1964	555	8213	050.58W	22 53 57	55.7	-27.5	244.2	-5.1 34.5
December 26, 1964	556	8214	075.25W	00 31 21				
"	556	8215	099.92W	02 08 45				
"	556	8216	124.59W	03 46 09				
"	556	8217	149.27W	05 23 33				
"	556	8218	173.94W	07 00 57				
"	556	8219	161.38E	08 38 21				
"	556	8220	136.71E	10 15 45	57.0	-25.0	244.0	-10.1 33.6
"	556	8221	112.04E	11 53 09				
"	556	8222	087.37E	13 30 33				
December 26, 1964	556	8223	062.70E	15 07 57				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
December 26, 1964	556	8224	038.03E	16 45 21				
"	556	8225	013.36E	18 22 45				
"	556	8226	011.30W	20 00 09				
"	556	8227	035.97W	21 37 33				
December 26, 1964	556	8228	060.64W	23 14 57	58.6	-22.1	243.7	-15.9
								32.5
December 27, 1964	557	8229	085.32W	00 52 21				
"	557	8230	109.99W	02 29 45				
"	557	8231	134.66W	04 07 09				
"	557	8232	159.33W	05 44 33				
"	557	8233	175.99E	07 21 57				
"	557	8234	151.32E	08 59 21				
"	557	8235	126.65E	10 36 45				
"	557	8236	101.97E	12 14 09				
"	557	8237	077.31E	13 51 33				
"	557	8238	052.63E	15 28 57				
"	557	8239	027.96E	17 06 21				
"	557	8240	003.29E	18 43 45				
"	557	8241	021.37W	20 21 10				
"	557	8242	046.04W	21 58 34				
December 27, 1964	557	8243	070.71W	23 35 58	61.5	-16.7	243.3	-26.7
								30.5
December 28, 1964	558	8244	095.38W	01 13 21				
"	558	8245	120.05W	02 50 46				
"	558	8246	144.72W	04 28 10	62.1	-16.1	244.0	-28.4
"	558	8247	169.39W	06 05 34				30.3
"	558	8248	165.92E	07 42 58				
December 28, 1964	558	8249	141.25E	09 20 22				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (Hr Min Sec)	f t _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
December 28, 1964	558	8250	116.58E	10 57 46				
"	558	8251	091.91E	12 35 1.0				
"	558	8252	067.24E	14 12 34				
"	558	8253	042.57E	15 49 58				
"	558	8254	017.90E	17 27 22				
"	558	8255	006.76W	19 04 46				
"	558	8256	031.43W	20 42 10				
"	558	8257	056.10W	22 19 34	64.2	-13.7	246.8	-34.9
December 28, 1964	558	8258	080.78W	23 56 58				29.5
December 29, 1964	559	8259	105.46W	01 34 21				
"	559	8260	130.13W	03 11 45				
"	559	8261	154.80W	04 49 09				
"	559	8262	179.47W	06 26 33	65.2	-13.1	248.9	-37.2
"	559	8263	155.85E	08 03 57				
"	559	8264	131.18E	09 41 21				
"	559	8265	106.51E	11 18 45				
"	559	8266	081.84E	12 56 09				
"	559	8267	057.16E	14 33 33				
"	559	8268	032.49E	16 10 57				
"	559	8269	007.82E	17 48 21				
"	559	8270	016.84W	19 25 45				
"	559	8271	041.51W	21 03 09				
December 29, 1964	559	8272	066.18W	22 40 33				
December 30, 1964	560	8273	090.85W	00 17 57				
"	560	8274	115.52W	01 55 21				
December 30, 1964	560	8275	140.19W	03 32 45				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
December 30, 1964	560	8276	164.86W	05 10 10				
	"	560	8277	170.46E	06 47 34			
	"	560	8278	145.78E	08 24 58			
	"	560	8279	121.11E	10 02 21			
	"	560	8280	096.44E	11 39 45			
	"	560	8281	071.77E	13 17 10			
	"	560	8282	047.10E	14 54 34			
	"	560	8283	022.43E	16 31 58			
	"	560	8284	002.23W	18 09 22			
	"	560	8285	026.91W	19 46 46			
December 30, 1964	"	560	8286	051.58W	21 24 10			
		560	8287	076.25W	23 01 34			
December 31, 1964	561	8288	100.92W	C0 38 58				
	"	561	8289	125.59W	02 16 22			
	"	561	8290	150.26W	03 53 46			
	"	561	8291	174.93W	05 31 10			
	"	561	8292	160.39E	07 08 34			
	"	561	8293	135.72E	08 45 58			
	"	561	8294	111.05E	10 23 22			
	"	561	8295	086.38E	12 00 46			
	"	561	8296	061.71E	13 38 10			
	"	561	8297	037.03E	15 15 34			
December 31, 1964	"	561	8298	012.36E	16 52 58			
		561	8299	012.30W	18 30 22			
December 31, 1964	"	561	8300	036.97W	20 07 46			
	"	561	8301	061.64W	21 45 10			
		561	8302	086.31W	23 22 34	73.5	-11.5	277.2

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
January 1, 1965	562	8303	110. 98W	00 59 58	73. 7	-11. 5	278. 0	-46. 7
"	562	8304	135. 65W	02 37 22				23. 8
"	562	8305	160. 32W	04 14 46				
"	562	8306	174. 99E	05 52 10				
"	562	8307	150. 32E	07 29 34				
"	562	8308	125. 65E	09 06 58				
"	562	8309	100. 98E	10 44 22				
"	562	8310	076. 31E	12 21 46	75. 2	-12. 0	283. 5	-45. 3
"	562	8311	051. 64E	13 59 10				22. 7
"	562	8312	026. 97E	15 36 34				
"	562	8313	002. 30E	17 13 58				
"	562	8314	022. 36W	18 51 22				
"	562	8315	047. 04W	20 28 46				
"	562	8316	071. 70W	22 06 10				
January 1, 1965	562	8317	096. 37W	23 43 34	76. 6	-12. 5	289. 1	-43. 9
January 2, 1965	563	8318	121. 04W	01 20 58	76. 9	-12. 7	289. 7	-43. 5
"	563	8319	145. 72W	02 58 22				21. 5
"	563	8320	170. 39W	04 35 46				
"	563	8321	164. 93E	06 13 10				
"	563	8322	140. 26E	07 50 34				
"	563	8323	115. 59E	09 27 58				
"	563	8324	090. 92E	11 05 22				
"	563	8325	066. 25E	12 42 46				
"	563	8326	041. 58E	14 20 10				
"	563	8327	016. 90E	15 57 34				
"	563	8328	007. 75W	17 34 58				
January 2, 1965	563	8329	032. 43W	19 12 22				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Fr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
January 2, 1965	563	8330	057.10W	20 49 46				
January 2, 1965	563	8331	081.77W	22 27 10	79.6	-15.0	297.4	-37.8
January 3, 1965	564	8332	106.44W	00 04 34	79.8	-15.2	297.8	-37.2
"	564	8333	131.11W	01 41 59				
"	564	8334	155.78W	03 19 22				
"	564	8335	179.54E	04 56 46				
"	564	8336	154.87E	06 34 10				
"	564	8337	130.20E	08 11 34				
"	564	8338	105.53E	09 48 59				
"	564	8339	080.85E	11 26 23				
"	564	8340	056.18E	13 03 47				
"	564	8341	031.51E	14 41 11				
"	564	8342	006.84E	16 18 35				
"	564	8343	017.82W	17 55 59				
"	564	8344	042.49W	19 33 23				
"	564	8345	067.16W	21 10 47				
January 3, 1965	564	8346	091.83W	22 48 11	82.7	-18.4	303.0	-29.2
January 4, 1965	565	8347	116.50W	00 25 35				
"	565	8348	141.17W	02 02 59				
"	565	8349	165.85W	03 40 23				
"	565	8350	169.47E	05 17 47	83.5	-19.5	303.6	-26.7
"	565	8351	144.80E	06 55 11				
"	565	8352	120.13E	08 32 35				
"	565	8353	095.46E	10 09 59				
"	565	8354	070.79E	11 47 23				
January 4, 1965	565	8355	046.12E	13 24 47				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e t _o (Min AAN) (Hr Min Sec)	f n _o (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
January 4, 1965	565	8356	021.45E	15 02 11				
"	565	8357	003.21W	16 39 35				
"	565	8358	027.88W	18 16 59				
"	565	8359	052.56W	19 54 23				
"	565	8360	077.23W	21 31 47				
January 4, 1965	565	8361	101.90W	23 09 11	85.7	-22.5	305.3	-19.7 18.5
January 5, 1965	566	8362	126.59W	00 46 36	85.9	-22.8	305.3	-19.0 18.8
"	566	8363	151.26W	02 24 00				
"	566	8364	175.93W	04 01 24				
"	566	8365	159.39E	05 38 48				
"	566	8366	134.71E	07 16 12				
"	566	8367	110.04E	08 53 36				
"	566	8368	085.37E	10 31 00				
"	566	8369	060.70E	12 08 24				
"	566	8370	036.03E	13 45 48				
"	566	8371	011.36E	15 23 12				
"	566	8372	013.30W	17 00 36				
"	566	8373	037.97W	18 38 00				
"	566	8374	062.64W	20 15 24				
"	566	8375	087.31W	21 52 48				
January 5, 1965	566	8376	111.99W	23 30 12	88.7	-26.8	305.9	-9.6 22.4
January 6, 1965	567	8377	136.66W	01 07 36				
"	567	8378	161.33W	02 45 00				
"	567	8379	173.99E	04 22 25				
"	567	8380	149.32E	05 59 49				
January 6, 1965	567	8381	124.65E	07 37 12				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t_o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	J GAMMA (Deg)
January 8, 1965	569	8406	132.11W	00 12 13					
"	569	8407	156.78W	01 49 37					
"	569	8408	178.53E	03 27 01					
"	569	8409	153.87E	05 04 25					
"	569	8410	129.19E	06 41 49					
"	569	8411	104.52E	08 19 13					
"	569	8412	079.85E	09 56 37					
"	569	8413	055.18E	11 34 01					
"	569	8414	030.51E	13 11 25					
"	569	8415	005.84E	14 48 49					
"	569	8416	018.82W	16 26 13					
"	569	8417	043.49W	18 03 37					
"	569	8418	068.17W	19 41 01					
"	569	8419	092.84W	21 18 25	92.7	-26.6	303.6	0.6	26.4
January 8, 1965	569	8420	117.51W	22 55 49					
January 9, 1965	570	8421	142.18W	00 33 13					
"	570	8422	166.85W	02 10 37					
"	570	8423	168.47E	03 48 01					
"	570	8424	143.80E	05 25 25					
"	570	8425	119.13E	07 02 49					
"	570	8426	094.45E	08 40 13					
"	570	8427	069.79E	10 17 37					
"	570	8428	045.11E	11 55 01					
"	570	8429	020.45E	13 32 25					
"	570	8430	004.22W	15 09 49					
"	570	8431	028.89W	16 47 13					
January 9, 1965	570	8432	053.56W	18 24 38					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (UT) (Hr Min Sec)	f Time (UT) (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
January 9, 1965	570	8433	078. 23W	20 02 01				
"	570	8434	102. 90W	21 39 25	93.5	-23.7	303.7	1.2 26.3
January 9, 1965	570	8435	127. 57W	23 16 49	93.6	-23.5	303.7	1.2 26.3
January 10, 1965	571	8436	152. 24W	00 54 14				
"	571	8437	176. 91W	02 31 38				
"	571	8438	158. 41E	04 09 02				
"	571	8439	133. 74E	05 46 26				
"	571	8440	109. 06E	07 23 49				
"	571	8441	084. 39E	09 01 14				
"	571	8442	059. 72E	10 38 38				
"	571	8443	035. 05E	12 16 02				
"	571	8444	010. 38E	13 53 26				
"	571	8445	014. 28W	15 30 50				
"	571	8446	038. 95W	17 08 14				
"	571	8447	063. 62W	18 45 38				
"	571	8448	088. 30W	20 23 02	94.3	-21.2	303.7	1.9 26.4
			MAC SWITCH CHANGED FROM POSITION 6 TO 11					
"	571	8449	112. 96W	22 00 26	94.5	-21.5	303.5	2.5 26.8
January 10, 1965	571	8450	137. 64W	23 37 50	94.6	-21.8	303.2	3.1 27.2
January 11, 1965	572	8451	162. 31W	01 15 14				
"	572	8452	173. 01E	02 52 38				
"	572	8453	148. 34E	04 30 02				
"	572	8454	123. 67E	06 07 26				
"	572	8455	099. 00E	07 44 50				
"	572	8456	074. 33E	09 22 14				
"	572	8457	049. 66E	10 59 38				
January 11, 1965	572	8458	024. 99E	12 37 02				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	j GAMMA (Deg)
January 11, 1965	572	8459	000. 32E	14 14 26					
"	572	8460	024. 34W	15 51 50					
"	572	8461	049. 01W	17 29 14					
"	572	8462	073. 69W	19 06 38					
"	572	8463	098. 36W	20 44 02	97.1	-26.0	300.6	12.5	35.1
"	572	8464	123. 03W	22 21 26	97.3	-26.4	300.4	13.2	35.7
January 11, 1965	572	8465	147. 70W	23 58 50					
January 12, 1965	573	8466	172. 39W	01 36 14					
"	573	8467	162. 93E	03 13 38					
"	573	8468	138. 26E	04 51 02					
"	573	8469	113. 59E	06 28 26					
"	573	8470	088. 92E	08 05 50					
"	573	8471	064. 25E	09 43 14					
"	573	8472	039. 58E	11 20 38					
"	573	8473	014. 91E	11 58 02					
"	573	8474	009. 75W	14 35 26					
"	573	8475	034. 43W	16 12 50					
"	573	8476	059. 10W	17 50 14					
"	573	8477	083. 77W	19 27 38					
"	573	8478	108. 44W	21 05 01					
January 12, 1965	573	8479	133. 11W	22 42 26	2.7	-31.5	296.2	23.8	45.4
January 13, 1965	574	8480	157. 78W	00 19 50					
"	574	8481	177. 54E	01 57 14					
"	574	8482	152. 87E	03 34 38					
"	574	8483	128. 20E	05 12 02	3.5	-33.0	294.6	26.5	48.0
									MAC SWITCH CHANGED FROM POSITION 11 TO 0

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
January 13, 1965	574	8484	103.53E	06 49 27				
	"	8485	078.86E	08 26 51				
	"	8486	054.18E	10 04 14				
	"	8487	029.51E	11 41 38				
	"	8488	004.84E	13 19 02				
	"	8489	019.82W	14 56 27				
	"	8490	044.49W	16 33 51				
	"	8491	069.16W	18 11 15				
	"	8492	093.83W	19 48 39				
	"	8493	118.50W	21 16 03				
January 13, 1965	574	8494	143.17W	23 03 27				
	"	8495	167.84W	00 40 51				
	"	8496	167.48E	02 18 15	3.9	-31.2	293.7	26.9
	"	8497	142.80E	03 55 39	3.9	-31.1	293.6	26.9
	"	8498	118.13E	05 33 03				
	"	8499	093.46E	07 10 27				
	"	8500	068.79E	08 47 51				
	"	8501	044.12E	10 25 15				
	"	8502	019.45E	12 02 39				
	"	8503	005.21W	13 40 03				
January 14, 1965	575	8504	029.88W	.5 17 27				
	"	8505	054.55W	16 54 51				
	"	8506	079.22W	18 32 15				
	"	8507	103.90W	20 09 39	4.2	-29.7	292.9	27.3
	"	8508	128.57W	21 47 03	4.2	-29.5	292.8	27.3
	"	8509	153.24W	23 24 27	4.2	-29.4	292.8	27.3

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g RA ASA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
January 15, 1965	576	8510	177.91W	01 01 51				
"	576	8511	157.41E	02 39 15	4.3	-29.1	292.7	27.4 48.7
"	576	8512	132.74E	04 16 39	4.3	-28.9	292.6	27.4 48.8
"	576	8513	108.07E	05 54 03				
"	576	8514	083.40E	07 31 27				
"	576	8515	058.73E	09 08 51				
"	576	8516	034.06E	10 46 15				
"	576	8517	009.39E	12 23 39				
"	576	8518	015.27W	14 01 03				
"	576	8519	039.94W	15 38 27				
"	576	8520	064.61W	17 15 51				
"	576	8521	089.29W	18 53 15				
"	576	8522	113.96W	20 30 39				
"	576	8523	138.63W	22 08 03				
January 15, 1965	576	8524	163.30W	23 45 27	4.7	-27.1	292.0	27.8 49.1
January 16, 1965	577	8525	172.02E	01 22 51				
"	577	8526	147.35E	03 00 15	4.7	-26.8	291.9	27.8 49.2
"	577	8527	122.68E	04 37 39	4.8	-26.7	291.8	27.9 49.2
"	577	8528	098.01E	06 15 03				
"	577	8529	073.33E	07 52 27				
"	577	8530	048.66E	09 29 51				
"	577	8531	023.99E	11 07 15				
"	577	8532	000.67W	12 44 39				
"	577	8533	025.34W	14 22 03				
"	577	8534	050.01W	15 59 27				
"	577	8535	074.68W	17 36 51				
January 16, 1965	577	8536	099.35W	19 14 15				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
January 16, 1965	577	8537	124.02W	20 51 39	5.1	-25.2	291.3	28.2
January 16, 1965	577	8538	148.69W	22 29 03				49.7
January 17, 1965	578	8539	173.37W	00 06 27				
"	578	8540	161.95E	01 43 51	5.2	-24.7	291.2	28.3
"	578	8541	137.28E	03 21 15	5.2	-24.5	291.1	28.3
"	578	8542	112.61E	04 58 39	5.2	-24.4	291.1	28.3
"	578	8543	087.94E	06 36 03				49.7
"	578	8544	063.27E	08 13 27				
"	578	8545	038.60E	09 50 51				
"	578	8546	013.93E	11 28 15				
"	578	8547	010.73W	13 05 40				
"	578	8548	035.40W	14 43 03				
"	578	8549	060.07W	16 20 28				
"	578	8550	084.74W	17 57 52				
"	578	8551	109.42W	19 35 15				
"	578	8552	134.09W	21 12 40				
January 17, 1965	578	8553	158.76W	22 50 04	5.6	-22.7	290.5	28.6
January 18, 1965	579	8554	176.56E	00 27 27	5.6	-22.6	290.5	28.8
"	579	8555	151.89E	02 04 51				50.2
"	579	8556	127.22E	03 42 15				
"	579	8557	102.55E	05 19 40				
"	579	8558	077.88E	06 57 04				
"	579	8559	053.21E	08 34 28				
"	579	8560	028.54E	10 11 52				
"	579	8561	003.86E	11 49 15				
January 18, 1965	579	8562	020.80W	13 26 40				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	J GAMMA (Deg)
January 18, 1965	579	8563	045. 47W	15 04 04					
"	579	8564	070. 14W	16 41 28					
"	579	8565	094. 81W	18 18 52					
"	579	8566	119. 48W	19 56 16					
"	579	8567	144. 15W	21 33 40					
January 18, 1965	579	8568	168. 82W	23 11 04	6.0	-20.5	289.7	29.0	50.6
January 19, 1965	580	8569	166. 47E	00 48 28	6.0	-20.4	289.6	29.0	50.6
"	580	8570	141. 80E	02 25 52	6.0	-20.2	289.5	29.0	50.6
"	580	8571	117. 13E	04 03 16	6.0	-20.1	289.4	29.0	50.7
"	580	8572	092. 45E	05 40 40					
"	580	8573	067. 78E	07 18 04					
"	580	8574	043. 11E	08 55 28					
"	580	8575	018. 44E	10 32 52					
"	580	8576	006. 22W	12 10 16					
"	580	8577	030. 89W	13 47 40					
"	580	8578	055. 56W	15 25 04	6.2	-19.2	288.7	29.0	50.8
"	580	8579	080. 23W	17 02 28					
"	580	8580	104. 90W	18 39 52					
"	580	8581	129. 57W	20 17 16					
"	580	8582	154. 24W	21 54 40	6.2	-18.7	288.4	29.0	50.9
January 19, 1965	580	8583	178. 91W	23 32 04	6.2	-18.6	288.3	29.0	50.9
January 20, 1965	581	8584	156. 40E	01 09 28	6.3	-18.6	288.0	29.0	51.0
			MAC SWITCH CHANGED FROM POSITION 0 TO 2						
"	581	8585	131. 73E	02 46 52	6.2	-18.3	288.1	28.8	50.8
"	581	8586	107. 06E	04 24 16	6.2	-18.0	288.1	28.7	50.7
January 20, 1965	581	8587	082. 39E	06 01 40					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
January 20, 1965	581	8588	057.72E	07 39 04				
"	581	8589	033.05E	09 16 29				
"	581	8590	008.38E	10 53 53				
"	581	8591	016.28W	12 31 17				
"	581	8592	040.95W	14 08 41	6.2	-16.3	288.3	27.9
"	581	8593	065.62W	15 46 05				49.9
"	581	8594	090.30W	17 23 29	6.2	-15.7	288.4	27.6
"	581	8595	114.97W	19 00 53	6.2	-15.4	288.4	27.4
"	581	8596	139.64W	20 38 17				49.5
"	581	8597	164.31W	22 15 41	6.2	-14.8	288.5	27.1
January 20, 1965	581	8598	171.01E	23 53 05	6.2	-14.5	288.5	27.0
								49.0
January 21, 1965	582	8599	146.34E	01 30 29	6.2	-14.3	288.6	26.8
"	582	8600	121.67E	03 07 53	6.2	-14.0	288.6	26.7
"	582	8601	097.00E	04 45 17				48.7
"	582	8602	072.33E	06 22 41				
"	582	8603	047.66E	08 00 05				
"	582	8604	022.98E	09 37 29				
"	582	8605	001.68W	11 14 53				
"	582	8606	026.35W	12 52 17	6.2	-11.9	288.9	25.6
"	582	8607	051.02W	14 29 41				47.7
"	582	8608	075.69W	16 07 05				
"	582	8609	100.36W	17 44 29	6.2	-11.0	289.0	25.1
"	582	8610	125.03W	19 21 53	6.2	-10.6	289.1	24.9
"	582	8611	149.70W	20 59 17	6.1	-10.3	289.1	24.7
January 21, 1965	582	8612	174.37W	22 36 41	6.1	-10.0	289.2	24.6
January 22, 1965	583	8613	160.95E	00 14 05				46.6

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
January 22, 1965	583	8614	136.27E	01 51 29	6.1	-9.4	289.2	24.2
	583	8615	111.60E	03 28 53	6.1	-9.1	289.3	24.1
	583	8616	086.93E	05 06 17				
	583	8617	062.26E	06 43 41				
	583	8618	037.59E	08 21 05				
	583	8619	012.92E	09 58 29				
	583	8620	011.74W	11 35 53				
	583	8621	036.41W	13 13 17				
	583	8622	061.08W	14 50 41				
	583	8623	085.75W	16 28 05				
January 22, 1965	583	8624	110.42W	18 05 29				
	583	8625	135.09W	19 42 53				
	583	8626	159.77W	21 20 17				
	583	8627	175.55E	22 57 41				
	584	8628	150.88E	00 35 05				
	584	8629	126.21E	02 12 29				
	584	8630	101.54E	03 49 53				
	584	8631	076.87E	05 27 17				
	584	8632	052.20E	07 04 41				
	584	8633	027.53E	08 42 05				
January 23, 1965	584	8634	002.86E	10 19 29				
	584	8635	021.80W	11 56 53				
	584	8636	046.48W	13 34 17				
	584	8637	071.15W	15 11 41				
	584	8638	095.82W	16 49 05				
	584	8639	120.49W	18 26 29				
January 23, 1965	584	8640	145.16W	20 03 53				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e t _o (Min AAN) (Hr Min Sec)	f n _o (Deg)	g RASA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
January 23, 1965	584	8641	169.83W	21 41 17				
January 23, 1965	584	8642	165.49E	23 18 41				
January 24, 1965	585	8643	140.82E	00 56 05	6.0	0.5	290.6	18.6
"	585	8644	116.14E	02 33 29				
"	585	8645	091.47E	04 10 53				
"	585	8646	066.80E	05 48 17				
"	585	8647	042.13E	07 25 41				
"	585	8648	017.46E	09 03 05				
"	585	8649	007.20W	10 40 29				
"	585	8650	031.87W	12 17 53				
"	585	8651	056.54W	13 55 17				
"	585	8652	081.21W	15 32 41				
"	585	8653	105.88W	17 10 05				
"	585	8654	130.55W	18 47 29				
"	585	8655	155.22W	20 24 53				
"	585	8656	179.89W	22 02 17				
January 24, 1965	585	8657	155.43E	23 39 41	6.0	5.3	291.1	15.7
January 25, 1965	586	8658	130.76E	01 17 05				
"	586	8659	106.09E	02 54 29				
"	586	8660	081.42E	04 31 53	6.0	6.3	291.1	15.1
"	586	8661	056.74E	06 09 17				
"	586	8662	032.07E	07 46 42				
"	586	8663	007.40E	09 24 05	6.0	7.2	291.1	14.5
"	586	8664	017.26W	11 01 29				
"	586	8665	041.93W	12 38 53				
January 25, 1965	586	8666	066.61W	14 16 17				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
January 25, 1965								
"	586	8667	091.28W	15 53 41	6.0	8.5	291.1	13.8
"	586	8668	115.95W	17 31 05				
"	586	8669	140.62W	19 08 29				
"	586	8670	165.29W	20 45 53				
January 25, 1965								
"	586	8671	170.03E	22 23 17				
January 26, 1965								
"	587	8672	145.34E	00 00 41				
"	587	8673	120.68E	01 38 05				
"	587	8674	096.01E	03 15 29				
"	587	8675	071.33E	04 52 53				
"	587	8676	046.66E	06 30 17				
"	587	8677	021.99E	08 07 41				
"	587	8678	002.67W	09 45 05				
"	587	8679	027.34W	11 22 29				
"	587	8680	052.01W	12 59 53				
"	587	8681	076.68W	14 37 17				
"	587	8682	101.35W	16 14 41				
"	587	8683	126.02W	17 52 05				
"	587	8684	150.69W	19 29 29				
"	587	8685	175.37W	21 06 53				
January 26, 1965								
"	587	8686	159.95E	22 44 17	3.7	19.1	290.4	1.1
January 27, 1965								
"	588	8687	135.28E	00 21 41				
"	588	8688	110.61E	01 59 05				
"	588	8689	085.94E	03 36 29				
"	588	8690	061.27E	05 13 53				
January 27, 1965								
"	588	8691	036.60E	06 51 17	3.1	22.5	290.9	-2.4
"	588	8692	011.83E	08 44 53	3.7	19.1	290.4	24.5

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
January 27, 1965								
"	588	8692	011. 93E	03 28 42				
"	588	8693	012. 73W	10 06 06				
"	588	8694	037. 40W	11 43 30				
"	588	8695	062. 07W	13 20 54				
"	588	8696	086. 74W	14 58 18				
"	588	8697	111. 41W	16 35 42	2.5	26.0	290.9	-6.3
MAC SWITCH CHANGED FROM POSITION 5 TO 6								
"	588	8698	136. 09W	18 13 06				
"	588	8699	160. 76W	19 50 30	2.6	26.3	291.0	-6.1
"	588	8700	174. 56E	21 27 54				
January 27, 1965								
"	588	8701	149. 89E	23 05 18				
January 28, 1965								
"	589	8702	125. 22E	00 42 42				
"	589	8703	100. 55E	02 20 06				
"	589	8704	075. 88E	03 57 30				
"	589	8705	051. 21E	05 34 54				
"	589	8706	026. 54E	07 12 18				
"	589	8707	001. 86E	08 49 42				
"	589	8708	022. 80W	10 27 06				
"	589	8709	047. 47W	12 04 30				
"	589	8710	072. 14W	13 41 54				
"	589	8711	096. 81W	15 19 18				
"	589	8712	121. 48W	16 56 42				
"	589	8713	146. 15W	18 34 06				
"	589	8714	170. 83W	20 11 30	3.7	28.8	291.3	-4.3
"	589	8715	164. 49E	21 48 54	3.8	28.9	291.3	-4.2
MAC SWITCH CHANGED FROM POSITION 6 TO 0								
January 28, 1965								
589	3716	139. 83E	23 26 18					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
January 29, 1965	590	8717	115.15E	01 03 42	4.0	29.3	291.4	-4.0
"	590	8718	090.48E	02 41 06				24.1
"	590	8719	065.81E	04 18 30				
"	590	8720	041.14E	05 55 54				
"	590	8721	016.47E	07 33 18				
"	590	8722	008.19W	09 10 42				
"	590	8723	032.86W	10 48 06				
"	590	8724	057.53W	12 25 30				
"	590	8725	082.20W	14 02 54				
"	590	8726	106.87W	15 40 18				
"	590	8727	131.55W	17 17 42				
"	590	8728	156.22W	18 55 06				
"	590	8729	179.10E	20 32 30				
"	590	8730	154.43E	22 09 54				
"	590	8731	129.76E	23 47 18	5.1	31.5	291.7	-2.3
January 29, 1965								25.5
January 30, 1965	591	8732	105.09E	01 24 42	5.2	31.7	291.7	-2.2
"	591	8733	080.42E	03 02 06				25.5
"	591	8734	055.75E	04 39 30				
"	591	8735	031.08E	06 16 54	5.4	32.2	291.8	-2.0
"	591	8736	006.41E	07 54 18				25.8
"	591	8737	018.26W	09 31 42				
"	591	8738	042.93W	11 09 06				
"	591	8739	067.60W	12 46 30				
"	591	8740	092.27W	14 23 54	5.8	33.0	291.9	-1.5
"	591	8741	116.94W	16 01 18				26.2
"	591	8742	141.61W	17 38 42	6.0	33.3	292.0	-1.3
January 30, 1965	591	8743	166.28W	19 16 06				26.4

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
January 30, 1965	591	8744	169.04E	20 53 30				
January 30, 1965	591	8745	144.37E	22 30 55				
January 31, 1965	592	8746	119.69E	00 08 19	6.3	34.0	292.1	-0.9
"	592	8747	095.02E	01 45 43				
"	592	8748	070.36E	03 23 07				
"	592	8749	045.68E	05 00 31	6.5	34.4	292.1	-0.7
"	592	8750	021.01E	06 37 55				
"	592	8751	003.65W	08 15 19				
"	592	8752	028.32W	09 52 43				
"	592	8753	052.99W	11 30 07				
"	592	8754	077.66W	13 07 31				
"	592	8755	102.33W	14 44 55	7.0	35.4	292.3	-0.1
MAC SWITCH CHANGED FROM POSITION 0 TO 11								
"	592	8756	127.00W	16 22 19				
"	592	8757	151.68W	17 59 43	7.5	34.9	292.5	1.5
"	592	8758	176.35W	19 37 07				
"	592	8759	158.97E	21 14 31				
January 31, 1965	592	8760	134.30E	22 51 55	8.4	34.1	292.9	3.9
February 1, 1965	593	8761	109.63E	00 29 19				
"	593	8762	084.96E	02 06 43	8.8	33.5	293.0	5.3
"	593	8763	060.29E	03 44 07				
"	593	8764	035.62E	05 21 31	9.3	33.0	293.1	6.6
"	593	8765	010.95E	06 58 55				
"	593	8766	013.72W	08 36 19				
"	593	8767	038.39W	10 13 43				
February 1, 1965	593	8768	063.06W	11 51 07				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
February 1, 1965	593	8769	087.73W	13 28 31				
"	593	8770	112.39W	15 05 55				
"	593	8771	137.07W	16 43 19				
"	593	8772	161.74W	18 20 43				
"	593	8773	173.58E	19 58 07				
"	593	8774	148.91E	21 35 31				
February 1, 1965	593	8775	124.24E	23 12 55				
February 2, 1965	594	8776	099.57E	00 50 14	11.9	29.5	293.9	14.8
"	594	8777	074.96E	02 27 38	12.1	29.3	294.1	15.4
"	594	8778	050.23E	04 05 02				38.7
"	594	8779	025.56E	05 42 26				
"	594	8780	000.89E	07 19 50				
"	594	8781	023.77W	08 57 14				
"	594	8782	048.44W	10 34 38				
"	594	8783	073.12W	12 12 02				
"	594	8784	097.79W	13 49 26	13.6	27.4	295.3	19.8
"	594	8785	122.46W	15 26 50				
"	594	8786	147.13W	17 04 14	14.0	26.9	295.7	21.0
"	594	8787	171.80W	18 41 38				41.9
"	594	8788	163.52E	20 19 02				42.8
"	594	8789	138.85E	21 56 26				
February 2, 1965	594	8790	114.18E	23 33 50				
February 3, 1965	595	8791	089.51E	01 11 14	15.1	25.5	296.8	24.1
"	595	8792	064.84E	02 48 38				
"	595	8793	040.17E	04 26 02				
February 3, 1965	595	8794	015.50E	06 03 26				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e t _o (Min AAN)	f n _o (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
February 3, 1965	595	8795	009.17W	07 40 50				
	"	8796	033.84W	09 18 14				
	"	8797	058.51W	10 55 38				
	"	8798	083.18W	12 33 02	16.6	23.7	299.3	28.1
	"	8799	107.85W	14 10 26				
	"	8800	132.52W	15 47 50				
	"	8801	157.19W	17 25 14				
	"	8802	178.13E	19 02 38				
	"	8803	153.46E	20 40 02				
	"	8804	128.79E	22 17 26				
February 3, 1965	595	3805	104.12E	23 54 50	18.2	21.9	301.8	32.1
	"	3806	079.45E	01 32 14				
	"	3807	054.77E	03 09 38				
	"	3808	030.10E	04 47 02				
	"	3809	005.43E	06 24 26				
	"	3810	019.23W	08 01 50				
	"	3811	043.90W	09 39 14				
	"	3812	068.57W	11 16 38				
	"	3813	093.24W	12 54 02	19.8	20.5	305.7	35.2
	"	3814	117.91W	14 31 26	20.0	20.3	306.2	52.8
February 4, 1965	596	8815	142.58W	16 08 50				
	"	8816	167.25W	17 46 14				
	"	8817	168.07E	19 23 38				
	"	8818	143.39E	21 01 02				
	"	8819	118.72E	22 38 26				
	"	8820	094.06E	00 15 50				
	"				21.2	19.3	309.3	37.7
	"							
	"							
	"							
February 5, 1965	597							
								54.5

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	J GAMMA (Deg)
February 5, 1965	597	8821	069.39E	01 53 14					
"	597	8822	044.71E	03 30 38					
"	597	8823	020.04E	05 08 02					
"	597	8824	004.62W	06 45 26					
"	597	8825	029.29W	08 22 50					
"	597	8826	053.96W	10 00 14					
"	597	8827	078.63W	11 37 38					
"	597	8828	103.30W	13 15 02					
"	597	8829	127.97W	14 52 26					
"	597	8830	152.64W	16 29 50					
"	597	8831	177.31W	18 07 14					
"	597	8832	158.00E	19 44 38					
"	597	8833	133.33E	21 22 02					
February 5, 1965	597	8834	108.66E	22 59 26	24.1	17.6	318.4	40.6	56.4
February 6, 1965	598	8835	083.99E	00 36 50	24.3	17.6	319.2	40.6	56.4
"	598	8836	059.32E	02 14 14					
"	598	8837	034.65E	03 51 38					
"	598	8838	009.98E	05 29 02					
"	598	8839	01 4.68W	07 06 26					
"	598	8840	039.35W	08 43 50					
"	598	8841	064.02W	10 21 14					
"	598	8842	088.69W	11 58 38	26.0	17.5	325.2	40.4	56.2
			MAC SWITCH CHANGED FROM POSITION 11 TO 1						
"	598	8843	113.36W	13 36 02					
"	598	8844	138.03W	15 13 26					
"	598	8845	162.70W	16 50 50					
February 6, 1965	598	8846	172.61E	18 28 14					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (UT) (Hr Min Sec)	f _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
February 6, 1965	598	8847	147.94E	20 05 38				
"	598	8848	123.27E	21 43 02				
February 6, 1965	598	8849	098.60E	23 20 26	26.5	17.5	325.6	40.1
February 7, 1965	599	8850	073.93E	00 57 50				
"	599	8851	049.26E	02 35 14	26.6	17.5	325.6	40.0
"	599	8852	024.59E	04 12 38				
"	599	8853	000.07W	05 50 02				
"	599	8854	024.74W	07 27 26				
"	599	8855	049.41W	09 04 50				
"	599	8856	074.08W	10 42 14				
"	599	8857	098.76W	12 19 38				
"	599	8858	123.43W	13 57 02	27.0	17.5	325.9	39.7
"	599	8859	148.10W	15 34 26	27.1	17.5	326.0	39.7
"	599	8860	172.77W	17 11 50				
"	599	8861	162.55E	18 49 14	27.2	17.5	326.1	39.6
"	599	8862	137.88E	20 26 38				
"	599	8863	113.21E	22 04 02				
February 7, 1965	599	8864	088.54E	23 41 26	27.5	17.5	326.2	39.5
February 8, 1965	600	8865	063.87E	01 18 49				
"	600	8866	039.19E	02 56 13				
"	600	8867	014.52E	04 33 37				
"	600	8868	010.14W	06 11 01				
"	600	8869	034.81W	07 48 25				
"	600	8870	059.48W	09 25 49				
"	600	8871	084.15W	11 03 13				
February 8, 1965	600	8872	108.82W	12 40 37	28.0	17.5	326.5	39.0

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	GAMMA (Deg)
February 8, 1965	600	8873	133.49W	14 18 01	28.0	17.5	326.5	39.0	54.0
"	600	8874	158.16W	15 55 25	28.1	17.5	326.5	38.9	54.0
"	600	8875	177.16E	17 32 49					
"	600	8876	152.49E	19 10 13	28.2	17.5	326.6	38.8	53.8
"	600	8877	127.81E	20 47 37					
February 8, 1965	600	8878	103.15E	22 25 01	28.4	17.5	326.6	38.7	53.6
February 9, 1965	601	8879	078.47E	00 02 25	28.4	17.5	326.7	38.6	53.5
"	601	8880	053.80E	01 39 49					
"	601	8881	029.13E	03 17 13					
"	601	8882	004.46E	04 54 37					
"	601	8883	020.20W	06 32 01					
"	601	8884	044.87W	08 09 25					
"	601	8885	069.54W	09 46 49					
"	601	8886	094.21W	11 24 13					
"	601	8887	118.88W	13 01 37					
"	601	8888	143.55W	14 39 01					
"	601	8889	168.23W	16 16 25					
"	601	8890	167.09E	17 53 49	29.1	17.5	326.9	37.8	52.5
"	601	8891	142.42E	19 31 13					
"	601	8892	117.75E	21 08 37	29.3	17.5	327.0	37.6	52.3
February 9, 1965	601	8893	093.08E	22 46 01					
February 10, 1965	602	8894	068.41E	00 23 25					
"	602	8895	043.74E	02 00 49					
"	602	8896	019.07E	03 38 13	29.5	17.5	327.1	37.3	51.9
"	602	8897	005.59W	05 15 37					
February 10, 1965	602	8898	030.26W	06 53 01					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
February 10, 1965	602	8899	054. 93W	08 30 25				
	602	8900	079. 60W	10 07 49				
	602	8901	104. 27W	11 45 13				
	602	8902	128. 95W	13 22 37	29. 9	17. 5	327. 1	36. 8
	602	8903	153. 62W	15 00 01				
	602	8904	178. 29W	16 37 25				
	602	8905	157. 03E	18 14 49	30. 1	17. 5	327. 2	36. 6
	602	8906	132. 36E	19 52 13	30. 2	17. 5	327. 2	36. 5
	MAC SWITCH CHANGED FROM POSITION 1 TO 2							
	"	602	8907	107. 69E	21 29 37	30. 2	17. 4	327. 1
February 10, 1965	602	8908	083. 02E	23 07 01				
	603	8909	058. 35E	00 44 25				
	603	8910	033. 68E	02 21 49				
	603	8911	009. 01E	03 59 13	30. 4	17. 0	326. 9	36. 7
	603	8912	015. 65W	05 36 37				
	603	8913	040. 32W	07 14 01				
	603	8914	064. 99W	08 51 25				
	603	8915	089. 66W	10 28 49				
	603	8916	114. 33W	12 06 13				
	603	8917	139. 01W	13 43 47	30. 5	16. 2	326. 5	37. 1
February 11, 1965	603	8918	163. 68W	15 21 01	30. 6	16. 1	326. 5	37. 2
	603	8919	171. 64E	16 58 25				
	603	8920	146. 97E	18 35 49	30. 6	15. 8	326. 4	37. 3
	603	8921	122. 30E	20 13 13				
	603	8922	097. 63E	21 50 37				
	603	8923	072. 96E	23 28 01	30. 7	15. 4	326. 2	37. 6
	MAC SWITCH CHANGED FROM POSITION 2 TO 1							
	"	603	8924	058. 35E	00 44 25			
	"	603	8925	033. 68E	02 21 49			
	"	603	8926	009. 01E	03 59 13			

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
February 12, 1965	604	8924	048.29E	01 05 25				
	"	604	8925	023.62E	02 42 49			
	"	604	8926	001.04W	04 20 13			
	"	604	8927	025.71W	05 57 37			
	"	604	8928	050.38W	07 35 01			
	"	604	8929	075.05W	09 12 25			
	"	604	8930	099.72W	10 49 49			
	"	604	8931	124.40W	12 27 12			
	"	604	8932	149.07W	14 04 36			
	"	604	8933	173.74W	15 42 00			
February 13, 1965	605	8934	161.58E	17 19 24				
	"	604	8935	136.91E	18 56 48			
	"	604	8936	112.24E	20 34 12			
	"	604	8937	087.57E	22 11 36			
	"	604	8938	062.90E	23 49 00			
	605	8939	038.23E	01 26 24				
	"	605	8940	013.55E	03 03 48			
	"	605	8941	011.11W	04 41 12			
	"	605	8942	035.78W	06 18 36			
	"	605	8943	060.45W	07 56 00			
February 13, 1965	"	605	8944	085.12W	09 33 24			
	"	605	8945	109.79W	11 10 48			
	"	605	8946	134.46W	12 48 12			
	"	605	8947	159.13W	14 25 36			
	"	605	8948	176.19E	16 03 00			
	"	605	8949	151.52E	17 40 24			
	"	605	8950	126.85E	19 17 48			
	605				31.6	11.8	325.2	39.3
						11.7	325.2	39.3
							52.5	52.6

MAC SWITCH CHANGED FROM POSITION 2 TO 11

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c CRBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
February 13, 1965	605	8951	102.17E	20 55 12	31.8	11.9	325.6	52.0
February 13, 1965	605	8952	077.50E	22 32 36				
February 14, 1965	606	8953	052.84E	00 10 00				
"	606	8954	028.17E	C1 47 24				
"	606	8955	003.49E	C3 24 48				
"	606	8956	021.16W	C5 02 12				
"	606	8957	045.84W	C6 39 36				
"	606	8958	070.51W	C8 17 00				
"	606	8959	095.18W	C9 54 24				
"	606	8960	119.85W	11 31 48				
"	606	8961	144.52W	13 09 12				
"	606	8962	169.19W	14 46 36				
"	606	8963	166.13E	16 24 00				
"	606	8964	141.46E	18 01 24				
"	606	8965	116.79E	19 38 48				
"	606	8966	092.12E	21 16 12				
February 14, 1965	606	8967	067.44E	22 53 36	35.6	15.5	332.1	28.1
February 15, 1965	607	8968	042.77E	C0 31 00				
"	607	8969	018.10E	C2 08 24				
"	607	8970	006.56W	C3 45 48				
"	607	8971	031.23W	C5 23 12				
"	607	8972	055.90W	C7 00 36				
"	607	8973	080.57W	C8 38 00				
"	607	8974	105.24W	10 15 24	37.2	16.9	333.8	23.1
"	607	8975	129.91W	11 52 48				
February 15, 1965	607	8976	154.58W	13 30 12				36.2

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (Hr Min Sec)	f Time (UT) (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
February 15, 1965	607	8977	179.25W	15 07 36				
"	607	8978	156.07E	16 45 00	38.1	17.8	334.8	20.2
"	607	8979	131.40E	18 22 24				33.3
"	607	8980	106.73E	19 59 48				
"	607	8981	082.06E	21 37 12				
February 15, 1965	607	8982	057.38E	23 14 36				
February 16, 1965	608	8983	032.65E	00 52 03	39.3	18.8	336.0	16.5
"	608	8984	007.98E	02 29 27				29.7
"	608	8985	016.68W	04 06 51				
"	608	8986	041.36W	05 44 15				
"	608	8987	066.03W	07 21 39				
"	608	8988	090.70W	08 59 03				
"	608	8989	115.37W	10 36 27				
"	608	8990	140.04W	12 13 51				
"	608	8991	164.71W	13 51 15				
"	608	8992	170.61E	15 28 39				
"	608	8993	145.94E	17 06 03				
"	608	8994	121.26E	18 43 27				
"	608	8995	096.59E	20 20 51				
"	608	8996	071.92E	21 58 15				
February 16, 1965	608	8997	047.25E	23 35 39	42.7	22.0	337.7	5.5
February 17, 1965	609	8998	022.58E	01 13 03	42.9	22.3	337.7	4.7
"	609	8999	002.08W	02 50 27				18.4
"	609	9000	026.75W	04 27 51				
"	609	9001	051.42W	06 05 15				
February 17, 1965	609	9002	076.09W	07 42 39				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN) (Deg)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	GAMMA (Deg)
February 17, 1965	609	9003	100.76W	09 20 03					
"	609	9004	125.43W	10 57 27					
"	609	9005	150.10W	12 34 51					
"	609	9006	174.78W	14 12 15					
"	609	9007	160.54E	15 49 39					
"	609	9008	135.87E	17 27 03					
"	609	9009	111.20E	19 04 27					
"	609	9010	086.53E	20 41 51					
"	609	9011	061.86E	22 19 15					
February 17, 1965	609	9012	037.19E	23 56 40	.46.1	26.4	336.9	-6.4	7.7
51									
February 18, 1965	610	9013	012.52E	01 34 04	46.4	26.7	336.8	-7.4	7.9
"	610	9014	012.14W	03 11 28					
"	610	9015	036.81W	04 48 52					
"	610	9016	061.48W	06 26 16					
"	610	9017	086.16W	08 03 40					
"	610	9018	110.83W	09 41 04					
"	610	9019	135.50W	11 18 28					
"	610	9020	160.17W	12 55 52					
"	610	9021	175.15E	14 33 16					
"	610	9022	150.48E	16 10 40					
"	610	9023	125.81E	17 48 04					
"	610	9024	101.14E	19 25 28					
"	610	9025	076.47E	21 02 52					
February 18, 1965	610	9026	051.80E	22 40 16	50.3	31.0	336.0	-20.6	9.8
February 19, 1965	611	9027	027.12E	00 17 40	50.6	31.4	335.6	-21.5	10.8
February 19, 1965	611	9028	002.45E	C1 55 04					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	j GAMMA (Deg)
February 19, 1965	611	9029	022.21W	03 32 28					
"	611	9030	046.88W	05 09 52					
"	611	9031	071.55W	06 47 16					
"	611	9032	096.22W	08 24 40					
"	611	9033	120.89W	10 02 04					
"	611	9034	145.56W	11 39 28					
"	611	9035	170.23W	13 16 52					
"	611	9036	165.09E	14 54 16					
"	611	9037	140.41E	16 31 40					
"	611	9038	115.74E	18 09 04					
"	611	9039	091.07E	19 46 28					
"	611	9040	066.40E	21 23 52					
52	February 19, 1965	611	9041	041.73E	23 01 16	54.6	37.5	330.6	-35.3
									24.3
	February 20, 1965	612	9042	017.06E	00 38 40	55.0	38.0	329.9	-36.2
"	612	9043	007.60W	02 16 04					25.4
"	612	9044	032.27W	03 53 28					
"	612	9045	056.94W	05 30 52					
"	612	9046	081.61W	07 08 16					
"	612	9047	106.28W	08 45 40					
"	612	9048	130.96W	10 23 04					
"	612	9049	155.63W	12 00 28					
"	612	9050	179.69E	13 37 52					
"	612	9051	155.02E	15 15 16	57.8	33.6	335.7	-43.6	32.9
"	612	9052	130.35E	16 52 40	58.2	33.8	335.5	-44.6	33.9
"	612	9053	105.68E	18 30 04	58.5	34.1	335.4	-45.6	34.9
"	612	9054	081.01E	20 07 28					
"	612	9055	056.34E	21 44 52					
"	612	9056	031.67E	23 22 16	59.5	44.5	319.9	-49.5	40.5

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (Deg)	f Time (UT) (Hr Min Sec)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
February 21, 1965	61.3	9057	006. 99E	00 59 40	59. 9	45. 0	318. 0	-50. 4
	"	9058	017. 67W	02 37 04				41. 9
	"	9059	042. 34W	04 14 29				
	"	9060	067. 01W	05 51 53				
	"	9061	091. 68W	07 29 17				
	"	9062	116. 35W	09 06 41				
	"	9063	141. 02W	10 44 05				
	"	9064	165. 69W	12 21 29				
	"	9065	169. 63E	13 58 53				
	"	9066	144. 95E	15 36 17				
	"	9067	120. 28E	17 13 41				
	"	9068	095. 61E	18 51 05				
	"	9069	070. 94E	20 28 29				
	"	9070	046. 27E	22 05 53				
February 21, 1965	61.3	9071	021. 60E	23 43 17	66. 5	52. 5	292. 0	-62. 9
	"	9072	003. 06W	01 20 41	67. 0	53. 1	289. 1	-62. 9
	"	9073	027. 73W	02 58 05				
	"	9074	052. 40W	04 35 29				
	"	9075	077. 08W	06 12 53				
	"	9076	101. 75W	07 50 17				
	"	9077	126. 42W	09 27 41				
	"	9078	151. 09W	11 05 05				
	"	9079	175. 76W	12 42 29				
	"	9080	159. 56E	14 19 53				
	"	9081	134. 89E	15 57 17				
	"	9082	110. 22E	17 34 41	72. 0	59. 0	260. 2	-62. 7
MAC SWITCH CHANGED FROM POSITION 11 TO 1								
February 22, 1965	61.4	9083	085. 55E	19 12 05				74. 4

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n_o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
February 22, 1965	61 4	9084	060. 88E	20 49 29				
February 22, 1965	61 4	9085	036. 21E	22 26 53				
February 23, 1965	61 5	9086	011. 57E	00 04 06	72. 0	59. 0	259. 2	-62. 7
"	61 5	9087	013. 09W	01 41 30				
"	61 5	9088	037. 76W	03 18 54				
"	61 5	9089	062. 43W	04 56 18				
"	61 5	9090	087. 10W	06 33 42				
"	61 5	9091	111. 78W	08 11 06				
"	61 5	9092	136. 45W	09 48 30				
"	61 5	9093	161. 12W	11 25 54				
"	61 5	9094	174. 20E	13 03 18				
"	61 5	9095	149. 53E	14 40 42				
"	61 5	9096	124. 86E	16 18 06				
"	61 5	9097	100. 19E	17 55 30				
"	61 5	9098	075. 52E	19 32 54				
"	61 5	9099	050. 85E	21 10 18				
February 23, 1965	61 5	9100	026. 18E	22 47 42	72. 0	58. 3	255. 8	-63. 4
February 24, 1965	61 6	9101	001. 51E	00 25 06	72. 0	58. 2	255. 6	-63. 5
"	61 6	9102	023. 15W	02 02 30				
"	61 6	9103	047. 82W	03 39 54				
"	61 6	9104	072. 50W	05 17 17				
"	61 6	9105	097. 17W	06 54 42				
"	61 6	9106	121. 84W	08 32 05				
"	61 6	9107	146. 51W	10 09 29				
"	61 6	9108	171. 18W	11 46 53				
"	61 6	9109	164. 14E	13 24 17				
February 24, 1965	61 6	9110	139. 47E	15 01 41				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
MAC SWITCH CHANGED FROM POSITION 1 TO 4								
February 24, 1965	616	9111	114.80E	16 39 05	72.0	57.1	253.3	-64.5
"	616	9112	090.13E	18 16 29				79.1
"	616	9113	065.46E	19 53 53				
"	616	9114	040.79E	21 31 17				
February 24, 1965	616	9115	016.12E	23 08 41	71.3	56.7	255.7	-64.7
February 25, 1965								
"	617	9116	008.54W	00 46 05				
"	617	9117	033.21W	02 23 29				
"	617	9118	057.89W	04 00 53				
"	617	9119	082.56W	05 38 17				
"	617	9120	107.23W	07 15 41				
"	617	9121	131.90W	08 53 05				
"	617	9122	156.57W	10 30 29				
"	617	9123	178.75E	12 07 53				
"	617	9124	154.08E	13 45 17				
"	617	9125	129.41E	15 22 41				
"	617	9126	104.74E	17 00 04				
"	617	9127	080.07E	18 37 29				
"	617	9128	055.40E	20 14 52				
"	617	9129	030.73E	21 52 16				
February 25, 1965	617	9130	006.06E	23 29 40	68.7	54.5	265.3	-64.7
February 26, 1965	618	9131	018.61W	01 07 04				75.0
"	618	9132	043.27W	02 44 28				
"	618	9133	067.95W	04 21 52				
"	618	9134	092.62W	05 59 16				
"	618	9135	117.29W	07 36 40				
February 26, 1965	618	9136	141.96W	09 14 04				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e t _o (Min AAN) (Hr Min Sec)	f n _o (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
February 26, 1965	61 8	91 37	1 66. 63W	1 0 51 28				
	61 8	91 38	1 68. 69E	1 2 28 52				
	61 8	91 39	1 44. 02E	1 4 06 16	67. 2	52. 5	272. 0	-63. 9
	61 8	91 40	1 19. 35E	1 5 43 40				
	61 8	91 41	0 94. 68E	1 7 21 04				
	61 8	91 42	0 70. 01E	1 8 58 28				
	61 8	91 43	0 45. 34E	2 0 35 52				
	61 8	91 44	0 20. 67E	2 2 13 16				
	61 8	91 45	0 03. 99W	2 3 50 40				
February 27, 1965	61 9	91 46	0 28. 67W	0 1 28 04				
	61 9	91 47	0 53. 33W	0 3 05 28				
	61 9	91 48	0 78. 01W	0 4 42 51				
	61 9	91 49	1 02. 68W	0 6 20 15				
	61 9	91 50	1 27. 35W	0 7 57 39				
	61 9	91 51	1 52. 02W	0 9 35 03				
	61 9	91 52	1 76. 69W	1 1 12 27				
	61 9	91 53	1 58. 63E	1 2 49 51				
	61 9	91 54	1 33. 96E	1 4 27 15	64. 9	48. 8	281. 6	-61. 8
	61 9	91 55	1 09. 29E	1 6 04 39				
February 28, 1965	61 9	91 56	0 84. 62E	1 7 42 03	64. 7	48. 3	282. 7	-61. 5
	61 9	91 57	0 59. 95E	1 9 19 27				
	61 9	91 58	0 35. 28E	2 0 56 51				
	61 9	91 59	0 10. 61E	2 2 34 15				
February 28, 1965	62 0	91 60	0 14. 06W	0 0 11 39	64. 1	47. 2	285. 0	-60. 7
	62 0	91 61	0 38. 73W	0 1 49 03				
	62 0	91 62	0 63. 40W	0 3 26 27				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
February 28, 1965	620	9163	088.07W	05 03 51				
"	620	9164	112.74W	06 41 15				
"	620	9165	137.41W	08 18 39				
"	620	9166	162.08W	09 56 02				
"	620	9167	173.24E	11 33 27				
"	620	9168	148.57E	13 10 50				
"	620	9169	123.90E	14 48 14	63.0	44.2	289.8	-58.5
"	620	9170	099.23E	16 25 38				
"	620	9171	074.56E	18 03 02	62.7	43.5	290.9	-58.0
"	620	9172	049.89E	19 40 26				
"	620	9173	025.22E	21 17 50				
"	620	9174	000.54E	22 55 14				
February 28, 1965	620							
March 1, 1965	621	9175	024.11W	00 32 38	62.2	42.1	292.9	-56.8
"	621	9176	048.79W	02 10 02				
"	621	9177	073.46W	03 47 26				
"	621	9178	098.13W	05 24 50				
"	621	9179	122.80W	07 02 14				
"	621	9180	147.47W	08 39 38				
"	621	9181	172.14W	10 17 02				
"	621	9182	163.18E	11 54 26				
"	621	9183	138.51E	13 31 50	61.1	39.3	296.0	-53.9
			MAC SWITCH CHANGED FROM POSITION 4 TO 1					
"	621	9184	113.84E	15 09 14				
"	621	9185	089.17E	16 46 38	61.1	38.9	296.3	-53.9
"	621	9186	064.50E	18 24 01				
"	621	9187	039.83E	20 01 25				
"	621	9188	015.16E	21 38 49				
March 1, 1965	621	9189	009.51W	23 16 13				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e t _o (Min AAN) (Hr Min Sec)	f n _o (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
March 2, 1965	622	91 90	034.20W	00 53 39	61.1	37.8	296.8	-53.9
	622	91 91	058.87W	02 31 03				59.3
	622	91 92	083.54W	04 08 27				
	622	91 93	108.21W	05 45 51				
	622	91 94	132.88W	07 23 15				
	622	91 95	157.55W	09 00 39				
	622	91 96	177.77E	10 38 03				
	622	91 97	153.10E	12 15 27	61.1	36.5	297.2	-53.9
	622	91 98	128.43E	13 52 51				
	622	91 99	103.75E	15 30 14				
March 2, 1965	622	9200	079.08E	17 07 38	61.2	35.9	297.4	-53.9
	622	9201	054.41E	18 45 02				59.6
	622	9202	029.74E	20 22 26				
	622	9203	005.07E	21 59 50				
	622	9204	019.59W	23 37 14				
	623	9205	044.26W	01 14 38				
	623	9206	068.93W	02 52 02				
	623	9207	093.60W	04 29 26				
	623	9208	118.27W	06 06 50				
	623	9209	142.94W	07 44 14				
March 3, 1965	623	9210	167.61W	09 21 38				
	623	9211	167.70E	10 59 02	61.2	33.8	298.4	-53.8
	623	9212	143.04E	12 36 26	61.2	33.5	298.4	-53.8
	623	9213	118.36E	14 13 50				
	623	9214	093.69E	15 51 14	61.3	33.1	298.6	-53.8
	623	9215	069.02E	17 28 38				
	623	9216	044.35E	19 06 02				
								59.6

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e t _o Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
March 3, 1965	623	9217	019.68E	20 43 26				
"	623	9218	004.98W	22 20 50				
March 3, 1965	623	9219	029.65W	23 58 14				
March 4, 1965	624	9220	054.32W	01 35 38				
"	624	9221	078.99W	03 13 02				
"	624	9222	103.66W	04 50 25				
"	624	9223	128.33W	06 27 49				
"	624	9224	153.00W	08 05 13	61.3	31.1	299.5	-53.5
"	624	9225	177.68W	09 42 37				
"	624	9226	157.65E	11 20 01	61.3	30.7	299.7	-53.5
			MAC SWITCH CHANGED FROM POSITION 1 TO 2					
"	624	9227	132.97E	12 57 25	61.3	30.5	299.7	-53.4
"	624	9228	108.30E	14 34 49	61.3	30.3	299.8	-53.2
"	624	9229	083.63E	16 12 13				
"	624	9230	058.96E	17 49 37				
"	624	9231	034.29E	19 27 01				
"	624	9232	009.62E	21 04 25				
March 4, 1965	624	9233	015.04W	22 41 49				
March 5, 1965	625	9234	039.71W	00 19 13				
"	625	9235	064.38W	01 56 37				
"	625	9236	089.05W	03 34 01				
"	625	9237	113.72W	05 11 25				
"	625	9238	138.39W	06 48 49				
"	625	9239	163.06W	08 26 13	61.0	28.1	300.2	-51.9
"	625	9240	172.26E	10 03 37				
"	625	9241	147.58E	11 41 01	61.0	27.6	300.2	-51.7
March 5, 1965	625	9242	122.91E	13 18 25				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN) (Deg)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	J GAMMA (Deg)
March 5, 1965	625	9243	098.24E	1 4 55 49	61.0	27.2	300.3	-51.5	59.1
"	625	9244	073.57E	1 6 33 12					
"	625	9245	048.90E	1 8 10 36					
"	625	9246	024.23E	1 9 48 00					
"	625	9247	000.43W	2 1 25 24					
March 5, 1965	625	9248	025.10W	2 3 02 48					
March 6, 1965	626	9249	049.77W	0 0 40 12					
"	626	9250	074.44W	0 2 17 36					
"	626	9251	099.11W	0 3 55 00					
"	626	9252	123.78W	0 5 32 24					
"	626	9253	148.45W	0 7 09 48					
"	626	9254	173.12W	0 8 47 12					
"	626	9255	162.19E	1 0 24 36					
"	626	9256	137.52E	1 2 02 00					
"	626	9257	112.85E	1 3 39 24					
"	626	9258	088.18E	1 5 16 48					
"	626	9259	063.51E	1 6 54 12					
"	626	9260	038.84E	1 8 31 36					
"	626	9261	014.17E	2 0 09 00					
"	626	9262	010.49W	2 1 46 24					
March 6, 1965	626	9263	035.16W	2 3 23 48					
March 7, 1965	627	9264	059.83W	0 1 01 12					
"	627	9265	084.50W	0 2 38 36					
"	627	9266	109.17W	0 4 15 59					
"	627	9267	133.85W	0 5 53 23					
March 7, 1965	627	9268	158.51W	0 7 30 47					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (UT) (Hr Min Sec)	f t _o (Min AN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
March 7, 1965	627	9269	176.80E	09 08 11				
	"	9270	152.13E	10 45 35	60.5	21.7	300.6	-47.9 58.5
	"	9271	127.46E	12 22 59	60.5	21.4	300.6	-47.8 58.5
	"	9272	102.79E	14 00 23	60.4	21.2	300.5	-47.6 58.5
	"	9273	078.12E	15 37 47	60.4	21.0	300.5	-47.5 58.5
	"	9274	053.45E	17 15 11				
	"	9275	028.78E	18 52 35				
	"	9276	004.11E	20 29 59				
	"	9277	020.55W	22 07 23				
	March 7, 1965	627	045.22W	23 44 47				
March 8, 1965	628	9279	069.89W	01 22 11				
	"	9280	094.56W	02 59 35				
	"	9281	119.23W	04 36 59				
	"	9282	143.90W	06 14 23	60.3	19.1	300.5	-46.2 58.5
	"	9283	168.58W	07 51 47				
	"	9284	166.75E	09 29 11	60.2	18.7	300.5	-46.0 58.4
	"	9285	142.07E	11 06 34	60.2	18.5	300.4	-45.8 58.4
	"	9286	117.40E	12 43 59				
	"	9287	092.73E	14 21 22	60.2	18.1	300.4	-45.6 58.4
	"	9288	068.06E	15 58 46				
March 8, 1965	628	9289	043.39E	17 36 10				
	"	9290	018.72E	19 13 34				
	"	9291	005.94W	20 50 58				
	"	9292	030.61W	22 28 22				
	March 9, 1965	629	9293	055.30W	00 05 46			
March 9, 1965	629	9294	079.96W	01 43 10				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t_o (Min AAN)	g R.A SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
March 9, 1965	629	9295	104.64W	03 20 34				
"	629	9296	129.31W	04 57 58	60.1	16.0	300.5	-44.3
"	629	9297	153.98W	06 35 22				
"	629	9298	178.65W	08 12 46				
"	629	9299	156.67E	09 50 10	60.1	15.3	300.5	-43.9
"	629	9300	132.00E	11 27 34	60.1	15.1	300.5	-43.8
"	629	9301	107.33E	13 04 58				
"	629	9302	082.66E	14 42 22	60.1	14.6	300.5	-43.5
"	629	9303	057.99E	16 19 46				
"	629	9304	033.32E	17 57 10				
"	629	9305	008.65E	19 34 34				
"	629	9306	016.01W	21 11 57				
62	March 9, 1965	629	9307	040.69W	22 49 21			
March 10, 1965	630	9308	065.35W	00 26 45				
"	630	9309	090.03W	02 04 09				
"	630	9310	114.70W	03 41 33				
"	630	9311	139.37W	05 18 57	60.0	12.3	300.8	-42.1
"	630	9312	164.04W	06 56 21				
"	630	9313	171.28E	08 33 45				
"	630	9314	146.61E	10 11 09	60.0	11.5	300.9	-41.6
"	630	9315	121.94E	11 48 33	60.0	11.3	300.9	-41.5
"	630	9316	097.27E	13 25 57	60.0	11.0	300.9	-41.3
"	630	9317	072.60E	15 03 21				
"	630	9318	047.93E	16 40 45				
"	630	9319	023.26E	18 18 09				
"	630	9320	001.40W	19 55 33				
March 10, 1965	630	9321	026.08W	21 32 57				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (Hr Min Sec)	f Time (UT) (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
March 10, 1965	630	9322	050.74W	23 10 21				
March 11, 1965	631	9323	075.41W	00 47 45				
"	631	9324	100.09W	02 25 08				
"	631	9325	124.76W	04 02 32				
"	631	9326	149.43W	05 39 56	60.0	8.4	301.2	-39.7
"	631	9327	174.10W	07 17 20				57.7
"	631	9328	161.22E	08 54 44	60.0	7.8	301.2	-39.4
"	631	9329	136.55E	10 32 08	60.0	7.6	301.2	-39.3
"	631	9330	111.88E	12 09 32				57.6
"	631	9331	087.21E	13 46 56	60.0	7.1	301.2	-38.9
"	631	9332	062.54E	15 24 20				57.6
"	631	9333	037.87E	17 01 44				
"	631	9334	013.20E	18 39 08				
"	631	9335	011.46W	20 16 32				
"	631	9336	036.14W	21 53 56				
March 11, 1965	631	9337	060.80W	23 31 20				
March 12, 1965	632	9338	085.48W	01 08 44				
"	632	9339	110.15W	02 46 08				
"	632	9340	134.82W	04 23 32				
"	632	9341	159.49W	06 00 56	59.9	4.5	301.2	-37.3
"	632	9342	175.83E	07 38 19				57.6
"	632	9343	151.16E	09 15 44	59.9	4.0	301.2	-37.0
"	632	9344	126.49E	10 53 07	59.9	3.7	301.2	-36.8
"	632	9345	101.82E	12 30 31				57.6
"	632	9346	077.15E	14 07 55	59.9	3.2	301.1	-36.5
March 12, 1965	632	9347	052.48E	15 45 19				57.6

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	j GAMMA (Deg)
March 12, 1965	632	9348	027.81E	17 22 43					
	"	9349	003.14E	19 00 07					
	"	632	9350	021.52W	20 37 31				
	"	632	9351	046.20W	22 14 55				
March 12, 1965	632	9352	070.86W	23 52 19					
	"	633	9353	095.54W	01 29 43				
	"	633	9354	120.21W	03 07 07				
	"	633	9355	144.88W	04 44 31	59.8	0.9	301.0	-34.9
March 13, 1965	633	9356	169.55W	06 21 55					
	"	633	9357	165.77E	07 59 19	59.8	0.4	300.9	-34.6
	"	633	9358	141.10E	09 36 43	59.8	0.1	300.9	-34.4
	"	633	9359	116.43E	11 14 07				
March 13, 1965	633	9360	091.76E	12 51 30	59.8	-0.4	300.9	-34.0	57.8
	"	633	9361	067.09E	14 28 55				
	"	633	9362	042.42E	16 06 18				
	"	633	9363	017.75E	17 43 42				
March 13, 1965	633	9364	006.91W	19 21 06					
	"	633	9365	031.58W	20 58 30				
	"	633	9366	056.25W	22 35 54				
	"	634	9367	080.93W	00 13 18				
March 14, 1965	634	9368	105.60W	01 50 42					
	"	634	9369	130.27W	03 28 06	59.8	-2.8	300.7	-32.3
	"	634	9370	154.94W	05 05 30				
	"	634	9371	179.61W	06 42 54				
March 14, 1965	634	9372	155.71E	08 20 18	59.8	-3.7	300.7	-31.7	58.0
		9373	131.04E	09 57 42					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (UT) (Hr Min Sec)	f t _o (Min AAN)	n _o (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
March 14, 1965	634	9374	106.37E	11 35 06					
"	634	9375	081.70E	13 12 30	60.5	-3.7	302.2	-33.7	57.8
"	634	9376	057.03E	14 49 54					
"	634	9377	032.36E	16 27 18					
"	634	9378	007.69E	18 04 42					
"	634	9379	016.97W	19 42 05					
"	634	9380	041.64W	21 19 29					
March 14, 1965	634	9381	066.31W	22 56 53					
March 15, 1965	635	9382	090.99W	00 34 17					
"	635	9383	115.65W	02 11 41					
"	635	9384	140.33W	03 49 05	62.7	-3.7	307.4	-39.5	57.1
"	635	9385	165.00W	05 26 29					
"	635	9386	170.32E	07 03 53					
"	635	9387	145.65E	08 41 17	63.5	-3.7	309.6	-41.2	56.9
"	635	9388	120.98E	10 18 41					
"	635	9389	096.31E	11 56 05	64.0	-3.7	311.1	-42.4	56.8
"	635	9390	071.64E	13 33 29					
"	635	9391	046.97E	15 10 53					
"	635	9392	022.30E	16 48 17					
"	635	9393	002.36W	18 25 41					
"	635	9394	027.03W	20 03 05					
"	635	9395	051.70W	21 40 29					
March 15, 1965	635	9396	076.37W	23 17 52					
March 16, 1965	636	9397	101.06W	00 55 16	66.0	-3.7	317.1	-46.9	56.2
"	636	9398	125.73W	02 32 40					
March 16, 1965	636	9399	150.40W	04 10 04	66.5	-3.7	319.1	-47.7	56.0

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (Hr Min Sec)	f Time (UT) (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
March 16, 1965	636	9400	175.07W	05 47 28				
"	636	9401	160.25E	07 24 52				
"	636	9402	135.58E	09 02 16	67.2	-3.7	322.1	-48.9
"	636	9403	110.91E	10 39 40				55.8
"	636	9404	086.24E	12 17 04				
"	636	9405	061.57E	13 54 28				
"	636	9406	036.90E	15 31 52				
"	636	9407	012.22E	17 09 16				
"	636	9408	012.44W	18 46 40				
"	636	9409	037.11W	20 24 04				
"	636	9410	061.78W	22 01 27				
"	636	9411	086.45W	23 38 51	69.5	-3.7	331.0	-52.5
March 16, 1965	636							55.2
March 17, 1965	637	9412	111.12W	01 16 15	69.7	-3.7	332.2	-52.6
"	637	9413	135.79W	02 53 39	69.9	-3.7	333.5	55.0
"	637	9414	160.46W	04 31 03				
"	637	9415	174.86E	06 08 27				
"	637	9416	150.19E	07 45 51	70.6	-3.8	337.1	-53.0
"	637	9417	125.52E	09 23 15				54.6
"	637	9418	100.85E	11 00 39				
"	637	9419	076.18E	12 38 03				
"	637	9420	051.51E	14 15 27				
"	637	9421	026.84E	15 52 51				
"	637	9422	002.16E	17 30 15				
"	637	9423	022.50W	19 07 39				
"	637	9424	047.17W	20 45 03				
"	637	9425	071.84W	22 22 27				
March 17, 1965	637	9426	096.51W	23 59 51	73.1	-4.0	349.4	-54.2
								53.5

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
March 18, 1965	638	9427	121.18W	01 37 14	73.3	-4.1	350.7	-54.0
	"	9428	145.85W	03 14 38	73.6	-4.2	352.1	-53.8
	"	9429	170.52W	04 52 02				53.1
	"	9430	164.80E	06 29 26				
	"	9431	140.13E	08 06 50	74.4	-4.6	356.0	-53.2
	"	9432	115.46E	09 44 14				52.4
	"	9433	090.79E	11 21 38				
	"	9434	066.12E	12 59 02				
	"	9435	041.45E	14 36 26				
	"	9436	016.78E	16 13 50				
March 18, 1965	638	9437	007.88W	17 51 14				
	"	9438	032.55W	19 28 38				
	"	9439	057.23W	21 06 02				
	"	9440	081.89W	22 43 26	76.7	-5.5	7.1	-50.5
	"	9441	106.57W	00 20 50	77.0	-5.7	7.9	-49.9
	"	9442	131.24W	01 58 14	77.2	-5.8	8.8	50.0
	"	9443	155.91W	03 35 38				-49.4
	"	9444	179.41E	05 13 01				49.7
	"	9445	154.74E	06 50 25				
	"	9446	130.07E	08 27 49				
March 19, 1965	639	9447	105.40E	10 05 13				
	"	9448	080.73E	11 42 37				
	"	9449	056.06E	13 20 01				
	"	9450	031.39E	14 57 25				
	"	9451	006.72E	16 34 49				
	"	9452	017.94W	18 12 13				
	"	9453	042.62W	19 49 37				
	"							
	"							
	"							

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e t _o Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
March 19, 1965	639	9454	067.28W	21 27 01				
March 19, 1965	639	9455	091.96W	23 04 25	80.5	-7.8	20.1	-42.4
March 20, 1965	640	9456	116.63W	00 41 49	80.7	-8.0	20.6	-41.7
"	640	9457	141.30W	02 19 13	81.0	-8.2	21.1	-41.0
"	640	9458	165.97W	03 56 37				44.8
"	640	9459	169.35E	05 34 00				
"	640	9460	144.68E	07 11 24				
"	640	9461	120.01E	08 48 48	82.0	-8.9	23.1	-38.2
"	640	9462	095.34E	10 26 12				
"	640	9463	070.67E	12 03 36				
"	640	9464	046.00E	13 41 00				
"	640	9465	021.33E	15 18 24				
"	640	9466	003.33W	16 55 48				
"	640	9467	028.00W	18 33 12				
"	640	9468	052.67W	20 10 36				
"	640	9469	077.34W	21 48 00				
March 20, 1965	640	9470	102.01W	23 25 24	84.2	-10.5	27.7	-32.1
March 21, 1965	641	9471	126.68W	01 02 48				
"	641	9472	151.36W	02 40 12	84.7	-10.9	28.3	-30.5
"	641	9473	176.03W	04 17 36				36.8
"	641	9474	159.29E	05 54 59	85.2	-11.3	28.9	-29.0
"	641	9475	134.62E	07 32 23				36.8
"	641	9476	109.95E	09 09 47	85.7	-11.7	29.4	-27.5
"	641	9477	085.28E	10 47 11				36.8
"	641	9478	060.61E	12 24 35				
"	641	9479	035.94E	14 01 59				
March 21, 1965	641	9480	011.27E	15 39 23				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f _o n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
March 21, 1965	641	9481	013.39W	17 16 47				
"	641	9482	038.06W	18 54 11				
"	641	9483	062.73W	20 31 35				
"	641	9484	087.40W	22 08 59	87.6	-13.3	-21.3	36.9
March 21, 1965	641	9485	112.07W	23 46 23	87.9	-13.5	-20.5	36.9
March 22, 1965	642	9486	136.75W	01 23 47				
"	642	9487	161.42W	03 01 11	88.3	-13.9	32.3	-19.0
"	642	9488	173.90E	04 38 35				36.4
"	642	9489	149.23E	06 15 59	88.8	-14.4	32.5	
"	642	9490	124.56E	07 53 23	89.0	-14.6	32.7	-17.5
"	642	9491	099.89E	09 30 46	89.3	-14.8	32.8	35.9
"	642	9492	075.22E	11 08 10				
"	642	9493	050.55E	12 45 34				
"	642	9494	025.88E	14 22 58				
"	642	9495	001.21E	16 00 22				
"	642	9496	023.45W	17 37 46				
"	642	9497	048.12W	19 15 10				
"	642	9498	072.79W	20 52 34				
March 22, 1965	642	9499	097.46W	22 29 58	91.1	-16.5	33.7	-9.7
March 23, 1965	643	9500	122.15W	00 07 22	91.4	-16.8	33.7	-8.9
"	643	9501	146.83W	01 44 45	91.6	-17.1	33.7	33.2
"	643	9502	171.49W	03 22 10				
"	643	9503	163.82E	04 59 33	92.0	-17.7	33.6	-6.5
"	643	9504	139.15E	06 36 57	92.3	-18.0	33.6	-5.6
"	643	9505	114.48E	08 14 21	92.5	-18.3	33.5	32.4
March 23, 1965	643	9506	089.81E	09 51 45				-4.8

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
March 23, 1965	643	9507	065.14E	11 29 09				
	"	9508	040.47E	13 06 33				
	"	9509	015.80E	14 43 57				
	"	9510	008.86W	16 21 21				
	"	9511	033.53W	17 58 45				
	"	9512	058.20W	19 36 09				
	"	9513	082.87W	21 13 33	94.3	-20.6	33.3	1.7
	"	9514	107.54W	22 50 57	94.6	-20.9	33.2	2.5
								30.4
								30.5
March 24, 1965	644	9515	132.21W	00 28 21	94.8	-21.3	33.1	3.5
	"	9516	156.88W	02 05 45	95.1	-21.7	32.9	4.4
	"	9517	178.44E	03 43 08				30.4
	"	9518	153.76E	05 20 32				
	"	9519	129.10E	06 57 56	95.8	-22.8	32.4	7.1
	"	9520	104.42E	08 35 20				
	"	9521	079.75E	10 12 44				
	"	9522	055.08E	11 50 08				
	"	9523	030.41E	13 27 32				
	"	9524	005.74E	15 04 56				
March 24, 1965	"	9525	018.92W	16 42 20				
	"	9526	043.59W	18 19 44				
	"	9527	068.26W	19 57 08				
	"	9528	092.93W	21 34 32	0.5	-26.3	30.9	15.1
	"	9529	117.60W	23 11 56	0.8	-26.7	30.7	16.0
								30.2
								30.4
								30.0
March 25, 1965	645	9530	142.27W	00 49 20	1.0	-27.2	30.3	17.0
"	645	9531	166.94W	02 26 44				
March 25, 1965	645	9532	168.38E	04 04 08				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
March 25, 1965								
"	645	9533	143.71E	05 41 31				
"	645	9534	119.03E	07 18 55				
"	645	9535	094.37E	08 56 19				
"	645	9536	069.70E	10 33 43				
"	645	9537	045.02E	12 11 07				
"	645	9538	020.35E	13 48 31				
"	645	9539	004.31W	15 25 55				
"	645	9540	028.98W	17 03 19				
"	645	9541	053.65W	18 40 43				
"	645	9542	078.32W	20 18 07				
"	645	9543	102.99W	21 55 31	4.4	-34.2	24.8	29.5
MAC SWITCH CHANGED FROM POSITION 11 TO 8								
March 25, 1965								
"	645	9544	127.66W	23 32 55				
March 26, 1965								
"	646	9545	152.33W	01 10 19				
"	646	9546	177.00W	02 47 43				
"	646	9547	158.32E	04 25 06				
"	646	9548	133.65E	06 02 30	4.7	-34.0	24.1	30.4
"	646	9549	108.98E	07 39 54				
"	646	9550	084.31E	09 17 18	4.8	-34.0	23.8	30.7
"	646	9551	059.64E	10 54 42				
"	646	9552	034.96E	12 32 06				
"	646	9553	010.29E	14 09 30				
"	646	9554	014.37W	15 46 54				
"	646	9555	039.03W	17 24 18				
"	646	9556	063.71W	19 01 42				
"	646	9557	088.38W	20 39 06	5.3	-33.9	22.6	31.9
March 26, 1965	646	9558	113.05W	22 16 30	5.3	-33.9	22.4	33.7

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e t _o Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
March 26, 1965	646	9559	137.72W	23 53 54				
March 27, 1965	647	9560	162.39W	01 31 17				
"	647	9561	172.93E	03 08 42				
"	647	9562	148.26E	04 46 05				
"	647	9563	123.59E	06 23 29	5.7	-33.8	21.7	33.1
"	647	9564	098.92E	08 00 53	5.8	-33.8	21.5	33.4
"	647	9565	074.25E	09 38 17				
"	647	9566	049.58E	11 15 41				
"	647	9567	024.91E	12 53 05				
"	647	9568	000.24E	14 30 29				
"	647	9569	024.43W	16 07 53				
"	647	9570	049.09W	17 45 17				
"	647	9571	073.77W	19 22 41				
"	647	9572	098.44W	21 00 05	6.4	-33.7	20.4	35.2
March 27, 1965	647	9573	123.11W	22 37 29	6.5	-33.7	20.2	35.4
March 28, 1965	648	9574	147.78W	00 14 53				
"	648	9575	172.45W	01 52 17	6.6	-33.7	19.9	35.8
"	648	9576	162.87E	03 29 40	6.7	-33.7	19.7	36.0
"	648	9577	138.20E	05 07 04	6.8	-33.6	19.6	36.2
"	648	9578	113.53E	06 44 28	6.8	-33.6	19.4	36.4
"	648	9579	088.86E	08 21 52				
"	648	9580	064.19E	09 59 16				
"	648	9581	039.52E	11 36 40				
"	648	9582	014.85E	13 14 04				
"	648	9583	009.82W	14 51 28				
March 28, 1965	648	9584	034.48W	16 28 52				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (Hr Min Sec)	t _o (Min AAN) (Deg)	n _o (Deg)	f RA SA (Deg)	g DEC SA (Deg)	h RA SA (Deg)	i DEC SA (Deg)	GAMMA (Deg)
March 28, 1965	648	9585	059.15W	18 06 16							
"	648	9586	083.83W	19 43 40	7.4	-33.5	18.1	37.9	36.2		
"	648	9587	108.50W	21 21 04	7.5	-33.5	17.9	38.1	36.3		
March 28, 1965	648	9588	133.17W	22 58 28							
March 29, 1965	649	9589	157.84W	00 35 51							
"	649	9590	177.48E	02 13 15	7.6	-33.5	17.4	38.7	36.6		
"	649	9591	152.81E	03 50 39	7.7	-33.5	17.3	38.8	36.7		
"	649	9592	128.14E	05 28 03	7.7	-33.4	17.1	39.0	36.8		
"	649	9593	103.47E	07 05 27	7.8	-33.4	16.9	39.2	36.9		
"	649	9594	078.80E	08 42 51	7.9	-33.4	16.7	39.3	36.9		
"	649	9595	054.13E	10 20 15							
"	649	9596	029.46E	11 57 39							
"	649	9597	004.79E	13 35 03							
"	649	9598	019.87W	15 12 27							
"	649	9599	044.54W	16 49 51							
"	649	9600	069.21W	18 27 15							
"	649	9601	093.89W	20 04 39	8.3	-33.3	15.5	40.5	37.6		
"	649	9602	118.55W	21 42 03	8.3	-33.3	15.3	40.7	37.7		
March 29, 1965	649	9603	143.23W	23 19 27							
March 30, 1965	650	9604	168.10W	00 56 50	8.5	-33.3	15.0	41.1	37.9		
"	650	9605	167.22E	02 34 14							
"	650	9606	142.55E	04 11 38	8.6	-33.3	14.6	41.5	38.2		
"	650	9607	117.87E	05 49 02	8.6	-33.2	14.5	41.6	38.3		
"	650	9608	093.20E	07 26 26							
"	650	9609	068.53E	09 03 50							
March 30, 1965	650	9610	043.86E	10 41 14							

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
March 30, 1965	650	9611	019.19E	12 18 38				
"	650	9612	005.47W	13 56 02				
"	650	9613	030.14W	15 33 26				
"	650	9614	054.81W	17 10 50				
"	650	9615	079.48W	18 48 14	9.1	-32.8	13.6	43.0
"	650	9616	104.16W	20 25 37	9.2	-32.7	13.5	43.2
"	650	9617	128.83W	22 03 01				
March 30, 1965	650	9618	153.50W	23 40 25				
March 31, 1965	651	9619	178.17W	01 17 49				
"	651	9620	157.15E	02 55 13				
"	651	9621	132.48E	04 32 37	9.5	-32.5	12.9	44.1
"	651	9622	107.80E	06 10 01	9.6	-32.4	12.8	44.3
"	651	9623	083.14E	07 47 25	9.7	-32.4	12.7	44.4
"	651	9624	058.46E	09 24 49				
"	651	9625	033.79E	11 02 13				
"	651	9626	009.12E	12 39 37				
"	651	9627	015.54W	14 17 01				
"	651	9628	040.21W	15 54 25				
"	651	9629	064.89W	17 31 48				
"	651	9630	089.56W	19 09 12				
"	651	9631	114.23W	20 46 36				
March 31, 1965	651	9632	138.90W	22 24 00				
April 1, 1965	652	9633	163.57W	00 01 24				
"	652	9634	171.75E	01 38 48				
"	652	9635	147.08E	03 16 12	10.4	-31.9	11.2	46.6
"	652	9636	122.41E	04 53 36	10.5	-31.8	11.1	46.8
April 1, 1965	652	9637	097.74E	06 31 00	10.6	-31.8	11.0	47.0

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (Hr Min Sec)	f (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
April 1, 1965	652	9638	073.06E	08 08 24				
	652	9639	048.39E	09 45 48				
	652	9640	023.72E	11 23 12				
	652	9641	000.94W	13 00 36				
	652	9642	025.61W	14 38 00				
	652	9643	050.28W	16 15 23				
	652	9644	074.95W	17 52 47				
	652	9645	099.63W	19 30 11	11.1			
	652	9646	124.30W	21 07 35				
	652	9647	148.97W	22 44 59				
April 1, 1965					-31.4	10.0	48.4	43.8
April 2, 1965	653	9648	173.64W	00 22 23				
	653	9649	161.68E	01 59 47				
	653	9650	137.01E	03 37 11	11.4			
	653	9651	112.34E	05 14 35	11.5	-31.2	9.4	44.6
April 2, 1965								
April 3, 1965	654	9663	176.28E	00 43 22				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
April 3, 1965	654	9664	151.61E	02 20 46	11.1	-28.9	8.7	42.7
"	654	9665	126.94E	03 58 10	11.0	-28.7	8.7	42.6
"	654	9666	102.26E	05 35 34	11.0	-28.6	8.7	42.4
"	654	9667	077.60E	07 12 58	11.0	-28.4	8.7	42.3
"	654	9668	052.92E	08 50 22				
"	654	9669	028.25E	10 27 45				
"	654	9670	003.58E	12 05 09				
"	654	9671	021.08W	13 42 33				
"	654	9672	045.75W	15 19 57				
"	654	9673	070.42W	16 57 21				
"	654	9674	095.10W	18 34 45	10.8	-27.1	8.5	41.2
"	654	9675	119.77W	20 12 09	10.8	-26.9	8.4	41.1
"	654	9676	144.44W	21 49 33	10.8	-26.7	8.4	40.9
April 3, 1965	654	9677	169.11W	23 26 57				
April 4, 1965	655	9678	166.21E	01 04 21				
"	655	9679	141.54E	02 41 45	10.7	-26.1	8.3	45.9
"	655	9680	116.87E	04 19 09	10.7	-26.0	8.3	45.8
"	655	9681	092.20E	05 56 33	10.7	-25.8	8.3	45.7
"	655	9682	067.52E	07 33 57				
"	655	9683	042.85E	09 11 20				
"	655	9684	018.18E	10 48 44				
"	655	9685	006.48W	12 26 08				
"	655	9686	031.15W	14 03 32				
"	655	9687	055.82W	15 40 56				
"	655	9688	080.50W	17 18 20				
"	655	9689	105.17W	18 55 44	10.6	-24.3	8.0	44.9
April 4, 1965	655	9690	129.84W	20 33 08	10.6	-24.2	8.0	44.8

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e t _o (Min AAN) (Hr Min Sec)	f n _o (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
April 4, 1965	655	9691	154.51W	22 10 32				
April 4, 1965	655	9692	179.18W	23 47 56	10.6	-23.8	7.9	44.6
April 5, 1965	656	9693	156.14E	01 25 20				
"	656	9694	131.47E	03 02 44				
"	656	9695	106.79E	04 40 07	10.6	-23.2	7.8	44.3
"	656	9696	082.12E	06 17 31	10.6	-23.1	7.7	44.2
"	656	9697	057.45E	07 54 55				
"	656	9698	032.78E	09 32 19				
"	656	9699	008.11E	11 09 43				
"	656	9700	016.55W	12 47 07				
"	656	9701	041.22W	14 24 31				
"	656	9702	065.90W	16 01 55				
"	656	9703	090.56W	17 39 19				
"	656	9704	115.24W	19 16 43	10.5	-21.6	7.5	43.5
"	656	9705	139.91W	20 54 07	10.5	-21.4	7.5	43.4
April 5, 1965	656	9706	164.58W	22 31 31				
April 6, 1965	657	9707	170.99E	00 08 55				
"	657	9708	146.32E	01 46 19	10.5	-20.8	7.4	43.2
"	657	9709	121.65E	03 23 43	10.5	-20.7	7.4	43.1
"	657	9710	096.98E	05 01 07	10.5	-20.5	7.4	43.1
"	657	9711	072.31E	06 38 31				
"	657	9712	047.64E	08 15 55				
"	657	9713	022.97E	09 53 19				
"	657	9714	001.70W	11 30 43				
"	657	9715	026.37W	13 08 07				
"	657	9716	051.04W	14 45 31				
April 6, 1965	657	9717	075.70W	16 22 55				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
April 6, 1965	657	9718	100.38W	18 00 19				
"	657	9719	125.05W	19 37 42	10.6	-18.9	7.2	42.5
"	657	9720	149.72W	21 15 06				36.7
April 6, 1965	657	9721	174.39W	22 52 30				
April 7, 1965	658	9722	160.93E	00 29 54	10.6	-18.3	7.2	42.4
"	658	9723	136.26E	02 07 18	10.6	-18.1	7.2	42.3
"	658	9724	111.59E	03 44 42	10.6	-17.9	7.2	42.3
"	658	9725	086.92E	05 22 06				36.4
"	658	9726	062.25E	06 59 30				
"	658	9727	037.58E	08 36 54				
"	658	9728	012.91E	10 14 18				
"	658	9729	011.75W	11 51 42				
"	658	9730	036.42W	13 29 06				
"	658	9731	061.09W	15 06 30				
"	658	9732	085.77W	16 43 53				
"	658	9733	110.43W	18 21 17				
"	658	9734	135.10W	19 58 41	10.8	-16.1	7.1	41.8
"	658	9735	159.78W	21 36 05				35.8
April 7, 1965	658	9736	175.54E	23 13 29	10.8	-15.7	7.1	41.8
April 8, 1965	659	9737	150.87E	00 50 53				35.7
"	659	9738	126.20E	02 28 17	10.8	-15.3	7.1	41.7
"	659	9739	101.53E	04 05 41	10.8	-15.2	7.1	41.6
"	659	9740	076.86E	05 43 05	10.8	-15.0	7.0	41.5
"	659	9741	052.19E	07 20 29				35.5
"	659	9742	027.52E	08 57 53				
"	659	9743	002.85E	10 35 17				
April 8, 1965	659	9744	021.81W	12 12 41				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (Hr Min Sec)	f Time (UT) (Min Sec)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
April 8, 1965	659	9745	046.48W	13 50 04				
"	659	9746	071.15W	15 27 29				
"	659	9747	095.82W	17 04 52				
"	659	9748	120.49W	18 42 16	10.9	-13.5	6.9	41.1
"	659	9749	145.16W	20 19 40				35.0
"	659	9750	169.84W	21 57 04	11.0	-13.2	6.9	41.0
April 8, 1965	659	9751	165.48E	23 34 28	11.0	-13.0	6.9	34.9
							6.4	41.0
April 9, 1965	660	9752	140.81E	01 11 52				
"	660	9753	116.14E	02 49 16				
"	660	9754	091.47E	04 26 40	11.0	-12.5	6.8	40.8
"	660	9755	066.80E	06 04 04				34.7
"	660	9756	042.13E	07 41 28				
"	660	9757	017.46E	09 18 52				
"	660	9758	007.20W	10 56 16				
"	660	9759	031.87W	12 33 40				
"	660	9760	056.54W	14 11 03				
"	660	9761	081.21W	15 48 27				
"	660	9762	105.88W	17 25 51				
"	660	9763	130.55W	19 03 15	11.1	-10.9	6.5	40.4
"	660	9764	155.22W	20 40 39				34.3
"	660	9765	179.90W	22 18 03	11.2	-10.6	6.5	40.2
April 9, 1965	660	9766	155.43E	23 55 27	11.2	-10.4	6.4	34.1
April 10, 1965	661	9767	130.75E	01 32 51				
"	661	9768	106.09E	03 10 15				
"	661	9769	081.41E	04 47 39	11.2	-9.9	6.4	40.1
"	661	9770	056.74E	06 25 03				34.0
April 10, 1965	661	9771	032.07E	08 02 27				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g R.A SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
April 10, 1965	661	9772	007.40E	09 39 51				
"	661	9773	017.26W	11 17 14				
"	661	9774	041.93W	12 54 38				
"	661	9775	066.60W	14 32 02				
"	661	9776	091.27W	16 09 26				
"	661	9777	115.94W	17 46 50				
"	661	9778	140.61W	19 24 14				
"	661	9779	165.28W	21 01 38	11.4	-8.2	6.1	33.6
"	661	9780	170.04E	22 39 02	11.4	-8.0	6.0	33.5
April 10, 1965								
April 11, 1965	662	9781	145.37E	00 16 26				
"	662	9782	120.70E	01 53 50				
"	662	9783	096.03E	03 31 14	11.5	-7.5	6.0	39.4
"	662	9784	071.35E	05 08 38				
"	662	9785	046.68E	06 46 02				
"	662	9786	022.02E	08 23 26				
"	662	9787	002.65W	10 00 49				
"	662	9788	027.32W	11 38 13				
"	662	9789	051.99W	13 15 37				
"	662	9790	076.66W	14 53 01				
"	662	9791	101.33W	16 30 25				
"	662	9792	126.00W	18 07 49	11.6	-5.9	5.8	39.0
"	662	9793	150.67W	19 45 13				
"	662	9794	175.34W	21 22 37	11.6	-5.6	5.7	38.9
April 11, 1965	662	9795	159.98E	23 00 01	11.7	-5.4	5.7	38.8
April 12, 1965	663	9796	135.31E	00 37 25				
April 12, 1965	663	9797	110.64E	02 14 49				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RASA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
April 12, 1965	663	9798	085.97E	03 52 1 3	11.7	-4.9	5.7	38.7
"	663	9799	061.30E	05 29 37				
"	663	9800	036.62E	07 07 00				
"	663	9801	011.96E	08 44 25				
"	663	9802	012.70W	10 21 48				
"	663	9803	037.38W	11 59 12				
"	663	9804	062.05W	13 36 36				
"	663	9805	086.72W	15 14 00				
"	663	9806	111.39W	16 51 24				
"	663	9807	136.06W	18 28 48	11.9	-3.4	5.4	38.3
"	663	9808	160.73W	20 06 12				
"	663	9809	174.59E	21 43 36	12.0	-3.1	5.4	38.2
April 12, 1965	663	9810	149.92E	23 21 00				
April 13, 1965	664	9811	125.26E	00 58 15	12.0	-2.7	5.3	38.2
"	664	9812	100.59E	02 35 39	12.0	-2.6	5.3	38.1
"	664	9813	075.92E	04 13 03				
"	664	9814	051.25E	05 50 27				
"	664	9815	026.58E	07 27 50				
"	664	9816	001.91E	09 05 14				
"	664	9817	022.75W	10 42 38				
"	664	9818	047.42W	12 20 02				
"	664	9819	072.09W	13 57 26				
"	664	9820	096.76W	15 34 50				
"	664	9821	121.43W	17 12 14				
"	664	9822	146.10W	18 49 37				
"	664	9823	170.77W	20 27 01				
April 13, 1965	664	9824	164.55E	22 04 25				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f t _o n _o	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
April 13, 1965	664	9825	139.88E	23 41 49	12.4	-0.5	5.1	37.8
April 14, 1965	665	9826	115.21E	01 19 13				
"	665	9827	090.54E	02 56 37	12.4	-0.2	5.0	37.7
"	665	9828	065.87E	04 34 00				
"	665	9829	041.20E	06 11 24				
"	665	9830	016.53E	07 48 48				
"	665	9831	008.13W	09 26 12				
"	665	9832	032.80W	11 03 36				
"	665	9833	057.47W	12 41 00				
"	665	9834	082.14W	14 18 24				
"	665	9835	106.81W	15 55 47				
"	665	9836	131.48W	17 33 11	12.6	1.1	4.6	37.4
"	665	9837	156.16W	19 10 35	12.7	1.3	4.5	37.3
"	665	9838	179.17E	20 47 59				
April 14, 1965	665	9839	154.50E	22 25 23				
April 15, 1965	666	9840	129.83E	00 02 47	12.8	1.8	4.6	37.3
"	666	9841	105.16E	01 40 11	12.8	1.9	4.6	37.3
"	666	9842	080.49E	03 17 34				
"	666	9843	055.81E	04 54 58				
"	666	9844	031.14E	06 32 22				
"	666	9845	006.47E	08 09 46				
"	666	9846	018.19W	09 47 10				
"	666	9847	042.86W	11 24 34				
"	666	9848	067.53W	13 01 58				
"	666	9849	092.20W	14 39 21	13.1	3.3	4.7	37.1
"	666	9850	116.87W	16 16 45				
April 15, 1965	666	9851	141.54W	17 54 09				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	j GAMMA (Deg)
April 15, 1965									
666	9852	166.21W	19 31 33	13.2	3.8	4.7	37.1	32.1	
666	9853	169.11E	21 08 57						
666	9854	144.44E	22 46 21	13.3	4.1	4.8	37.0	32.1	
MAC SWITCH CHANGED FROM POSITION 1 TO 6									
April 16, 1965									
"	667	9855	119.77E	00 23 44	13.3	4.2	4.8	37.1	32.1
"	667	9856	095.10E	02 01 08	13.4	4.4	4.8	37.1	32.1
"	667	9857	070.43E	03 38 32					
"	667	9858	045.76E	05 15 56					
"	667	9859	021.09E	06 53 20					
"	667	9860	003.57W	08 30 44					
"	667	9861	028.24W	10 08 08					
"	667	9862	052.91W	11 45 31					
"	667	9863	077.58W	13 22 55					
"	667	9864	102.25W	15 00 19	13.8	5.4	5.1	37.5	32.3
"	667	9865	126.92W	16 37 43					
"	667	9866	151.59W	18 15 07	13.9	5.6	5.2	37.5	32.4
"	667	9867	176.26W	19 52 31	14.0	5.7	5.3	37.6	32.4
"	667	9868	159.06E	21 29 54					
April 16, 1965									
667	9869	134.39E	23 07 18						
April 17, 1965									
668	9870	109.72E	00 44 42	14.2	6.0	5.4	37.9	32.6	
MAC SWITCH CHANGED FROM POSITION 6 TO 11									
"	668	9871	085.05E	02 22 06	14.3	6.0	5.6	38.2	32.8
"	668	9872	060.38E	03 59 30					
"	668	9873	035.71E	05 36 54					
"	668	9874	011.04E	07 14 17					
"	668	9875	013.62W	08 51 41					
April 17, 1965									
668	9876	038.29W	10 29 05						

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
MAC SWITCH CHANGED FROM POSITION 11 TO 0								
April 17, 1965	668	9877	062. 96W	12 06 29	15.1	5.9	40.1	33.8
"	668	9878	087. 63W	13 43 53	15.2	5.9	40.4	34.0
"	668	9879	112. 30W	15 21 17				
"	668	9880	136. 97W	16 58 41	15.5	6.1	7.8	40.9
"	668	9881	161. 64W	18 36 04	15.7	6.2	8.2	41.1
"	668	9882	173. 67E	20 13 28				34.2
"	668	9883	149. 01E	21 50 52				
"	668	9884	124. 33E	23 28 16	16.1	6.5	9.5	41.9
April 18, 1965								
"	669	9885	099. 67E	01 05 40	16.2	6.6	9.6	41.9
"	669	9886	074. 99E	02 43 04				34.3
"	669	9887	050. 32E	04 20 27				
"	669	9888	025. 65E	05 57 51				
"	669	9889	000. 98E	07 35 15				
"	669	9890	023. 68W	09 12 39				
"	669	9891	048. 35W	10 50 03				
"	669	9892	073. 02W	12 27 27	16.6	7.5	10.3	42.1
"	669	9893	097. 69W	14 04 50	16.7	7.6	10.4	42.1
"	669	9894	122. 36W	15 42 14				34.2
"	669	9895	147. 03W	17 19 38	16.8	7.9	10.6	42.2
"	669	9896	171. 70W	18 57 02	16.9	8.0	10.7	42.2
"	669	9897	163. 62E	20 34 26				34.1
"	669	9898	138. 95E	22 11 50				
"	669	9899	114. 28E	23 49 14	17.1	8.4	11.0	42.3
April 19, 1965	670	9900	089. 61E	01 26 37	17.1	8.5	11.1	34.1
"	670	9901	064. 94E	03 04 01				
April 19, 1965	670	9902	040. 27E	04 41 25				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f _{t_o} (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
April 19, 1965	670	9903	015.60E	06 18 49				
"	670	9904	009.06W	07 56 13				
"	670	9905	033.73W	09 33 36				
"	670	9906	058.40W	11 11 00	17.5	8.9	42.6	34.2
"	670	9907	083.07W	12 48 24	17.6	9.0	11.6	42.6
"	670	9908	107.74W	14 25 48				
"	670	9909	132.41W	16 03 12	17.7	9.2	11.8	42.7
"	670	9910	157.08W	17 40 36	17.8	9.3	11.8	42.8
"	670	9911	178.24E	19 17 59				
"	670	9912	153.57E	20 55 23				
"	670	9913	128.90E	22 32 47	18.0	9.5	12.1	42.9
April 19, 1965	670							
85	April 20, 1965	671	9914	104.18E	00 10 17	18.0	9.6	12.2
"	"	671	9915	079.51E	01 47 41			
"	"	671	9916	054.84E	03 25 05			
"	"	671	9917	030.17E	05 02 29			
"	"	671	9918	005.50E	06 38 52			
"	"	671	9919	019.16W	08 17 16			
"	"	671	9920	043.83W	09 54 40			
"	"	671	9921	068.50W	11 32 04	18.5	10.1	12.7
"	"	671	9922	093.17W	13 09 28	18.6	10.2	12.8
"	"	671	9923	117.84W	14 46 52			
"	"	671	9924	142.51W	16 24 16	18.7	10.4	13.0
"	"	671	9925	167.18W	18 01 40	18.8	10.5	13.1
"	"	671	9926	168.14E	19 39 03			
"	"	671	9927	143.47E	21 16 27			
April 20, 1965	671	9928	118.80E	22 53 51				
April 21, 1965	672	9929	094.13E	00 31 15	19.0	10.8	13.4	34.3

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
April 21, 1965	672	9930	069.46E	02 08 39				
"	672	9931	044.79E	03 46 03				
"	672	9932	020.11E	05 23 27				
"	672	9933	004.54W	07 00 51				
"	672	9934	029.21W	08 38 14				
"	672	9935	053.89W	10 15 38				
"	672	9936	078.56W	11 53 02	19.5	11.4	43.4	34.1
"	672	9937	103.23W	13 30 26				
"	672	9938	127.90W	15 07 50	19.6	11.6	43.4	34.0
"	672	9939	152.57W	16 45 14	19.7	11.7	43.4	34.0
"	672	9940	177.24W	18 22 38				
"	672	9941	158.08E	20 00 01				
"	672	9942	133.41E	21 37 25	19.9	11.9	43.5	33.9
"	672	9943	108.74E	23 14 49	20.0	12.0	43.5	33.9
			MAC SWITCH CHANGED FROM POSITION 0 TO 11					
April 22, 1965	673	9944	084.07E	00 52 13	20.1	12.0	15.4	43.7
"	673	9945	059.40E	02 29 37				
"	673	9946	034.73E	04 07 01				
"	673	9947	010.06E	05 44 25				
"	673	9948	014.60W	07 21 49				
"	673	9949	039.27W	08 59 12				
"	673	9950	063.94W	10 36 36	21.3	11.8	19.4	44.8
"	673	9951	088.61W	12 14 00	21.5	11.7	20.1	45.0
"	673	9952	113.28W	13 51 24	21.6	11.7	20.8	45.2
"	673	9953	137.95W	15 28 48	21.8	11.7	21.5	45.4
"	673	9954	162.62W	17 06 12	22.0	11.6	22.2	45.6
"	673	9955	172.70E	18 43 36				
April 22, 1965	673	9956	148.03E	20 20 59	22.4	11.6	23.5	46.0

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o n _o	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
April 22, 1965	673	9957	123.36E	21 58 23	22.6	11.5	24.2	46.2
April 22, 1965	673	9958	098.69E	23 35 47	22.8	11.5	24.9	46.4
April 23, 1965	674	9959	074.02E	01 13 11				
"	674	9960	049.35E	02 50 35				
"	674	9961	024.68E	04 27 59				
"	674	9962	000.01E	06 05 23				
"	674	9963	024.65W	07 42 47				
"	674	9964	049.33W	09 20 10				
"	674	9965	073.99W	10 57 34	24.2	11.2	30.4	46.7
"	674	9966	098.67W	12 34 58	24.4	11.2	31.2	46.7
"	674	9967	123.34W	14 12 22				
"	674	9968	148.01W	15 49 46				
"	674	9969	172.68W	17 27 10	25.0	11.1	33.6	46.9
"	674	9970	162.64E	19 04 34				
"	674	9971	137.97E	20 41 57	25.4	11.0	35.2	47.0
"	674	9972	113.30E	22 19 21	25.6	10.9	36.0	47.0
April 23, 1965	674	9973	088.63E	23 56 45				
April 24, 1965	675	9974	063.96E	01 34 09				
"	675	9975	039.29E	03 11 33				
"	675	9976	014.62E	04 48 57				
"	675	9977	010.04W	06 26 21				
"	675	9978	034.71W	08 03 45				
"	675	9979	059.38W	09 41 08	26.9	10.6	41.3	46.4
"	675	9980	084.05W	11 18 32	27.1	10.6	42.0	46.3
"	675	9981	108.72W	12 55 56				
"	675	9982	133.39W	14 33 20	27.5	10.5	43.5	46.1
April 24, 1965	675	9983	158.06W	16 10 44	27.7	10.5	44.2	46.0

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
April 24, 1965	675	9984	177.26E	17 48 08				
"	675	9985	152.59E	19 25 32				
"	675	9986	127.92E	21 02 55	28.2	10.3	46.5	34.9
April 24, 1965	675	9987	103.25E	22 40 19	28.5	10.3	47.2	34.9
April 25, 1965	676	9988	078.58E	00 17 43				
"	676	9989	053.91E	01 55 07				
"	676	9990	029.24E	03 32 31				
"	676	9991	004.57E	05 09 55				
"	676	9992	020.09W	06 47 19				
"	676	9993	044.76W	08 24 42				
"	676	9994	069.43W	10 02 06	29.9	10.9	51.7	42.9
"	676	9995	094.11W	11 39 30	30.1	11.0	52.4	42.5
88	676	9996	118.77W	13 16 54				
"	676	9997	143.45W	14 54 18				
"	676	9998	168.12W	16 31 42	30.7	11.3	54.3	41.3
"	676	9999	167.20E	18 09 06				
"	676	10000	142.54E	19 46 30	31.2	11.4	55.6	40.5
"	676	10001	117.86E	21 23 53	31.4	11.5	56.3	40.1
April 25, 1965	676	10002	093.19E	23 01 17				
April 26, 1965	677	10003	068.52E	00 38 41				
"	677	10004	043.86E	02 16 05				
"	677	10005	019.18E	03 53 29				
"	677	10006	005.48W	05 30 53				
"	677	10007	030.15W	07 08 17				
"	677	10008	054.82W	08 45 40	32.9	12.6	59.5	36.2
"	677	10009	079.49W	10 23 04	33.1	12.8	59.9	35.6
April 26, 1965	677	10010	104.16W	12 00 28				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	gAMMA (Deg)
April 26, 1965	677	1 0011	128.83W	13 37 52					
"	677	1 0012	153.50W	15 15 16	33.8	13.3	61.2	33.9	32.5
"	677	1 0013	178.17W	16 52 40					
"	677	1 0014	157.15E	18 30 04	34.2	13.7	62.1	32.7	32.2
"	677	1 0015	132.48E	20 07 27					
"	677	1 0016	107.81E	21 44 51					
April 26, 1965	677	1 0017	083.14E	23 22 15					
April 27, 1965	678	1 0018	058.44E	00 59 45					
"	678	1 0019	033.77E	02 37 08					
"	678	1 0020	009.09E	04 14 32					
"	678	1 0021	015.57W	05 51 56					
"	678	1 0022	040.24W	07 29 20	35.8	15.3	64.0	28.0	31.2
"	678	1 0023	064.91W	09 06 44					
"	678	1 0024	089.58W	10 44 08	36.1	15.7	64.3	26.8	30.9
"	678	1 0025	114.25W	12 21 32					
"	678	1 0026	138.92W	13 58 56					
"	678	1 0027	163.59W	15 36 20	36.7	16.4	64.7	25.0	30.5
"	678	1 0028	171.73E	17 13 44	36.9	16.6	64.8	24.4	30.3
"	678	1 0029	147.06E	18 51 07	37.1	16.8	64.9	23.8	30.2
"	678	1 0030	122.39E	20 28 31					
"	678	1 0031	097.72E	22 05 55					
April 27, 1965	678	1 0032	073.05E	23 43 19					
April 28, 1965	679	1 0033	048.38E	01 20 43					
"	679	1 0034	023.71E	02 58 07					
"	679	1 0035	000.95W	04 35 31					
"	679	1 0036	025.62W	06 12 55					
April 28, 1965	679	1 0037	050.29W	07 50 19	38.5	19.1	65.2	18.6	29.2

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b	c	d	e	f	g	h	i
JULIAN DAY	ORBIT NUMBER	ASCENDING NODE (Deg)	Longitude (Deg)	t _o (Min AAN) (Hr Min Sec)	n _o (Min AAN) (Deg)	RA SA (Deg)	DEC SA (Deg)	GAMMA (Deg)
April 28, 1965	679	10038	074.96W	09 27 42				
"	679	10039	099.64W	11 05 06				
"	679	10040	124.31W	12 42 30				
"	679	10041	148.98W	14 19 54				
"	679	10042	173.64W	15 57 18				
"	679	10043	161.68E	17 34 42	39.6	21.1	65.0	14.5 28.5
"	679	10044	137.00E	19 12 06	39.8	21.4	64.9	13.8 28.3
"	679	10045	112.33E	20 49 30	40.0	21.8	64.9	13.2 28.2
April 28, 1965	679	10046	087.66E	22 26 54				
April 29, 1965	680	10047	062.99E	00 04 17				
"	680	10048	038.32E	01 41 42				
"	680	10049	013.65E	03 19 05				
"	680	10050	011.01W	04 56 29				
"	680	10051	035.68W	06 33 53				
"	680	10052	060.35W	08 11 17	41.2	24.8	63.7	8.0 27.6
"	680	10053	085.02W	09 48 41	41.4	25.2	63.5	7.2 27.5
"	680	10054	109.69W	11 26 05	41.6	25.7	63.3	6.5 27.5
				MAC SWITCH CHANGED FROM POSITION 11 TO 0				
"	680	10055	134.36W	13 03 29				
"	680	10056	159.03W	14 40 53	41.8	25.4	63.4	6.2 27.5
"	680	10057	176.29E	16 18 17				
"	680	10058	151.62E	17 55 40	41.9	25.1	63.5	6.0 27.6
"	680	10059	126.95E	19 33 04				
"	680	10060	102.28E	21 10 28				
April 29, 1965	680	10061	077.61E	22 47 52				
April 30, 1965	681	10062	052.94E	00 25 16				
April 30, 1965	681	10063	028.26E	02 02 40				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	j GAMMA (Deg)
April 30, 1965	681	10064	003.59E	03 40 04					
"	681	10065	021.07W	05 17 28					
"	681	10066	045.74W	06 54 52	42.6	23.6	64.0	5.2	28.0
"	681	10067	070.41W	08 32 15					
"	681	10068	095.08W	10 09 39	42.7	23.1	64.2	5.0	28.1
"	681	10069	119.75W	11 47 03					
"	681	10070	144.41W	13 24 27					
"	681	10071	169.09W	15 01 51	43.0	22.5	64.4	4.7	28.3
"	681	10072	166.23E	16 39 15	43.1	22.3	64.5	4.6	28.3
"	681	10073	141.56E	18 16 39	43.1	22.1	64.6	4.5	28.4
"	681	10074	116.89E	19 54 03					
"	681	10075	092.22E	21 31 27					
April 30, 1965	681	10076	067.55E	23 08 51					
May 1, 1965	682	10077	042.88E	00 46 14					
"	682	10078	018.21E	02 23 38					
"	682	10079	006.45W	04 01 02					
"	682	10080	031.12W	05 38 26					
"	682	10081	055.79W	07 15 50	43.8	20.4	65.2	3.7	28.9
"	682	10082	080.46W	08 53 14					
"	682	10083	105.13W	10 30 38					
"	682	10084	129.80W	12 08 02	44.0	19.8	65.5	3.4	29.0
"	682	10085	154.48W	13 45 25	44.1	19.6	65.5	3.3	29.1
"	682	10086	179.14W	15 22 49					
"	682	10087	156.18E	17 00 13					
"	682	10088	131.51E	18 37 37	44.3	18.9	65.8	3.1	29.3
"	682	10089	106.84E	20 15 01					
May 1, 1965	682	10090	082.16E	21 52 25					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f _n _o	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
May 1, 1965	682	10091	057.49E	23 29 49				
May 2, 1965	"	683	10092	032.82E	01 07 13			
"	"	683	10093	008.15E	02 44 37			
"	"	683	10094	016.51W	04 22 01			
"	"	683	10095	041.18W	05 59 25			
"	"	683	10096	065.85W	07 36 48	44.9	17.2	66.2
"	"	683	10097	090.52W	09 14 12			
"	"	683	10098	115.19W	10 51 36			
"	"	683	10099	139.86W	12 29 00			
"	"	683	10100	164.53W	14 06 24	45.1	16.4	66.3
"	"	683	10101	170.79E	15 43 48	45.1	16.2	66.3
"	"	683	10102	146.12E	17 21 12	45.2	16.0	66.3
"	"	683	10103	121.45E	18 58 36			
"	"	683	10104	096.78E	20 36 00			
"	"	683	10105	072.11E	22 13 23			
May 2, 1965	"	683	10106	047.43E	23 50 47			
May 3, 1965	"	684	10107	022.77E	01 28 11			
"	"	684	10108	001.89W	03 05 35			
"	"	684	10109	026.57W	04 42 59			
"	"	684	10110	051.24W	06 20 23	45.6	14.4	66.5
"	"	684	10111	075.91W	07 57 47			
"	"	684	10112	100.57W	09 35 11			
"	"	684	10113	125.24W	11 12 35			
"	"	684	10114	149.92W	12 49 59			
"	"	684	10115	174.59W	14 27 23	45.9	13.6	66.5
"	"	684	10116	160.73E	16 04 46	46.0	13.4	66.5
May 3, 1965	"	684	10117	136.06E	17 42 10	46.0	13.2	66.5

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n_o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
May 3, 1965	684	10118	111.39E	19 19 34				
"	684	10119	086.72E	20 56 58				
May 3, 1965	684	10120	062.05E	22 34 22				
May 4, 1965								
"	685	10121	037.19E	00 11 40				
"	685	10122	012.52E	01 49 04				
"	685	10123	012.14W	03 26 28				
"	685	10124	036.81W	05 03 51				
"	685	10125	061.48W	06 41 15				
"	685	10126	086.15W	08 18 39				
"	685	10127	110.83W	09 56 03				
"	685	10128	135.50W	11 33 27				
"	685	10129	160.17W	13 10 51				
"	685	10130	175.15E	14 48 15				
"	685	10131	150.48E	16 25 38				
"	685	10132	125.81E	18 03 02				
"	685	10133	101.14E	19 40 26				
"	685	10134	076.47E	21 17 50				
May 4, 1965	685	10135	051.80E	22 55 14				
May 5, 1965	686	10136	027.12E	00 32 38				
"	686	10137	002.45E	02 10 02				
"	686	10138	022.21W	03 47 25				
"	686	10139	046.88W	05 24 49				
"	686	10140	071.55W	07 02 13				
"	686	10141	096.22W	08 39 37				
"	686	10142	120.89W	10 17 01				
"	686	10143	145.56W	11 54 25				
May 5, 1965	686	10144	170.23W	13 31 49				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	j GAMMA (Deg)
May 5, 1965	686	10145	165.08E	15 09 12	47.3	8.3	66.1	0.0	28.5
"	686	10146	140.41E	16 46 36					
"	686	10147	115.74E	18 24 00					
"	686	10148	091.07E	20 01 24					
"	686	10149	066.40E	21 38 48					
May 5, 1965	686	10150	041.73E	23 16 12					
May 6, 1965	687	10151	017.06E	00 53 36					
"	687	10152	007.60W	02 30 59					
"	687	10153	032.27W	04 08 23					
"	687	10154	056.95W	05 45 47	47.7	6.4	66.0	-0.1	28.1
"	687	10155	081.62W	07 23 11					
"	687	10156	106.28W	09 00 35					
"	687	10157	130.96W	10 37 59					
"	687	10158	155.63W	12 15 23					
"	687	10159	179.69E	13 52 46					
"	687	10160	155.02E	15 30 10	48.0	4.9	66.3	-0.2	28.1
"	687	10161	130.35E	17 07 34					
"	687	10162	105.68E	18 44 58					
"	687	10163	081.00E	20 22 22					
"	687	10164	056.33E	21 59 46					
May 6, 1965	687	10165	031.66E	23 37 10					
May 7, 1965	688	10166	006.99E	01 14 33					
"	688	10167	017.67W	02 51 57					
"	688	10168	042.34W	04 29 21					
"	688	10169	067.01W	06 06 45	48.4	2.9	66.6	-0.5	28.2
"	688	10170	091.68W	07 44 09					
May 7, 1965	688	10171	116.35W	09 21 33					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
May 7, 1965	688	10172	141.03W	10 58 57				
"	688	10173	165.70W	12 36 20				
"	688	10174	169.63E	14 13 44	48.6	1.8	66.7	-0.7 28.2
"	688	10175	144.95E	15 51 08	48.7	1.6	66.7	-0.7 28.2
"	688	10176	120.28E	17 28 32	48.7	1.4	66.7	-0.8 28.2
"	688	10177	095.61E	19 05 56				
"	688	10178	070.94E	20 43 20				
"	688	10179	046.27E	22 20 44				
"	688	10180	021.60E	23 58 07				
May 7, 1965								
May 8, 1965	689	10181	003.06W	01 35 31				
"	689	10182	027.73W	03 12 55				
"	689	10183	052.40W	04 50 19	49.1	-0.0	66.8	-1.0 28.2
"	689	10184	077.08W	06 27 43				
"	689	10185	101.75W	08 05 06				
"	689	10186	126.42W	09 42 30				
"	689	10187	151.09W	11 19 54				
"	689	10188	175.76W	12 57 18				
"	689	10189	159.56E	14 34 42	49.3	-1.3	66.9	-1.3 28.1
"	689	10190	134.89E	16 12 06	49.4	-1.5	66.9	-1.3 28.1
"	689	10191	110.22E	17 49 30				
"	689	10192	085.54E	19 26 53				
"	689	10193	060.88E	21 04 17				
May 8, 1965	689	10194	036.20E	22 41 41				
May 9, 1965	690	10195	011.53E	00 19 05				
"	690	10196	013.13W	01 56 29				
"	690	10197	037.80W	03 33 53				
May 9, 1965	690	10198	062.47W	05 11 17	49.8	-3.1	67.0	-1.7 28.2

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
May 9, 1965	690	101 99	087.14W	06 48 40				
"	690	10200	111.81W	08 26 04				
"	690	10201	136.49W	10 03 28				
"	690	10202	161.16W	11 40 52				
"	690	10203	174.16E	13 18 16				
"	690	10204	149.49E	14 55 40	50.1	-4.3	67.1	-1.9
"	690	10205	124.82E	16 33 04				
"	690	10206	100.15E	18 10 27				
"	690	10207	075.48E	19 47 51				
"	690	10208	050.81E	21 25 15				
May 9, 1965	690	10209	026.14E	23 02 39				
96	691	10210	001.46E	00 40 03				
"	691	10211	023.19W	02 17 27				
"	691	10212	047.87W	03 54 50	50.5	-5.9	67.1	-2.2
"	691	10213	072.53W	05 32 14				
"	691	10214	097.21W	07 09 38				
"	691	10215	121.88W	08 47 02				
"	691	10216	146.55W	10 24 26				
"	691	10217	171.22W	12 01 50				
"	691	10218	164.09E	13 39 14	50.7	-7.1	67.2	-2.5
"	691	10219	139.42E	15 16 37	50.8	-7.3	67.2	-2.5
"	691	10220	114.75E	16 54 01	50.8	-7.5	67.2	-2.6
"	691	10221	090.09E	18 31 25				
"	691	10222	065.41E	20 08 49				
"	691	10223	040.74E	21 46 13				
May 10, 1965	691	10224	016.07E	23 23 37				
May 11, 1965	692	10225	008.36W	01 01 04				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
May 11, 1965	692	1 0226	033.02W	02 38 28				
"	692	1 0227	057.69W	04 15 52	51.1	-8.9	67.2	-2.8
"	692	1 0228	082.36W	05 53 15				
"	692	1 0229	107.04W	07 30 39				
"	692	1 0230	131.71W	09 08 03				
"	692	1 0231	156.37W	10 45 27	51.3	-9.6	67.2	-3.0
"	692	1 0232	178.95E	12 22 51				
"	692	1 0233	154.27E	14 00 15	51.4	-10.0	67.2	-3.1
"	692	1 0234	129.61E	15 37 39				
"	692	1 0235	104.93E	17 15 02				
"	692	1 0236	080.26E	18 52 26				
"	692	1 0237	055.59E	20 29 50				
"	692	1 0238	030.92E	22 07 14				
May 11, 1965	692	1 0239	006.25E	23 44 38				
May 12, 1965	693	1 0240	018.41W	01 22 02				
"	693	1 0241	043.08W	02 59 26	51.8	-11.5	67.2	-3.3
"	693	1 0242	067.75W	04 36 50				
"	693	1 0243	092.42W	06 14 14				
"	693	1 0244	117.09W	07 51 37				
"	693	1 0245	141.76W	09 29 01				
"	693	1 0246	166.43W	11 06 25	52.0	-12.6	67.2	-3.3
"	693	1 0247	168.89E	12 43 49	52.0	-12.8	67.2	-3.3
"	693	1 0248	144.22E	14 21 13	52.0	-13.0	67.2	-3.3
"	693	1 0249	119.55E	15 58 37				
"	693	1 0250	094.88E	17 36 00				
"	693	1 0251	070.21E	19 13 24				
May 12, 1965	693	1 0252	045.54E	20 50 48				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f _o (Min AAN)	g RASA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
May 12, 1965	693	10253	020.87E	22 28 12				
May 13, 1965	694	10254	003.79W	00 05 36				
"	694	10255	028.46W	01 43 00				
"	694	10256	053.13W	03 20 24	52.4		-14.7	
"	694	10257	077.81W	04 57 47				
"	694	10258	102.48W	06 35 11				
"	694	10259	127.15W	08 12 35				
"	694	10260	151.81W	09 49 59				
"	694	10261	176.48W	11 27 23				
"	694	10262	158.84E	13 04 47	52.6		-16.0	
"	694	10263	134.16E	14 42 11	52.7		-16.2	
"	694	10264	109.49E	16 19 34	52.7		-16.4	
"	694	10265	084.82E	17 56 59				
"	694	10266	060.15E	19 34 22				
"	694	10267	035.48E	21 11 46				
"	694	10268	010.81E	22 49 10				
May 13, 1965	695	10269	013.85W	00 26 34				
"	695	10270	038.52W	02 03 58				
"	695	10271	063.19W	03 41 22	53.0		-17.8	
"	695	10272	087.86W	05 18 45				
"	695	10273	112.53W	06 56 09				
"	695	10274	137.20W	08 33 33				
"	695	10275	161.87W	10 10 57	53.2		-18.6	
"	695	10276	173.45E	11 48 21				
"	695	10277	148.78E	13 25 45	53.2		-19.0	
"	695	10278	124.11E	15 03 09	53.3		-19.2	
May 14, 1965	695	10279	099.44E	16 40 33				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n_o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
May 14, 1965	695	10280	074.77E	18 17 57				
"	695	10281	050.10E	19 55 20				
"	695	10282	025.43E	21 32 44				
May 14, 1965	695	10283	000.76E	23 10 08				
May 15, 1965	696	10284	023.90W	00 47 32				
"	696	10285	048.57W	02 24 56	53.6	-20.6	67.0	-3.4
"	696	10286	073.25W	04 02 20				26.8
"	696	10287	097.92W	05 39 44				
"	696	10288	122.59W	07 17 07				
"	696	10289	147.25W	08 54 31				
"	696	10290	171.92W	10 31 55				
"	696	10291	163.39E	12 09 19	53.8	-21.9	67.0	-3.3
"	696	10292	138.72E	13 46 43				26.6
"	696	10293	114.05E	15 24 07				
"	696	10294	089.39E	17 01 31				
"	696	10295	064.71E	18 38 54				
"	696	10296	040.04E	20 16 18				
"	696	10297	015.37E	21 53 42				
May 15, 1965	696	10298	009.29W	23 31 06				
May 16, 1965	697	10299	033.96W	01 08 30				
"	697	10300	058.63W	02 45 54	54.1	-23.7	66.9	-3.1
"	697	10301	083.30W	04 23 17				26.2
"	697	10302	107.97W	06 00 41				
"	697	10303	132.64W	07 38 05				
"	697	10304	157.31W	09 15 29				
"	697	10305	178.01E	10 52 53				
May 16, 1965	697	10306	153.34E	12 30 17	54.4	-25.0	66.9	-3.0
								26.0

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (UT) (Hr Min Sec)	f Time (UT) (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
May 16, 1965	697	10307	128.67E	14 07 41	54.5	-25.0	66.8	-3.2
	697	10308	104.00E	15 45 05	54.5	-25.0	66.7	-3.4
	"	10309	079.33E	17 22 28				
	"	10310	054.66E	18 59 52				
	"	10311	029.99E	20 37 16				
	"	10312	005.32E	22 14 40				
	"	10313	019.34W	23 52 04				
					55.0	-25.0	66.2	-4.8
								27.0
May 17, 1965	698	10314	044.02W	01 29 28	55.0	-25.0	66.2	-4.8
	698	10315	068.68W	03 06 52				
	"	10316	093.35W	04 44 15				
	"	10317	118.02W	06 21 39				
	"	10318	142.69W	07 59 03				
	"	10319	167.37W	09 36 27				
	"	10320	167.95E	11 13 51	55.5	-25.0	65.7	-6.0
	"	10321	143.29E	12 51 15	55.6	-25.0	65.6	-6.2
	"	10322	118.62E	14 28 39				
	"	10323	093.94E	16 06 02				
May 17, 1965	698	10324	069.27E	17 43 26				
	"	10325	044.60E	19 20 50				
	"	10326	019.93E	20 58 14				
	"	10327	004.73W	22 35 38				
	698							
May 18, 1965	699	10328	029.42W	00 13 02				
	699	10329	054.09W	01 50 26	56.3	-25.0	65.0	-7.9
	"	10330	078.76W	03 27 49				
	"	10331	103.43W	05 05 13				
	"	10332	128.10W	06 42 37				
May 18, 1965	699	10333	152.77W	08 20 01				
								29.3

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t_o n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
May 18, 1965	699	10334	177.44W	09 57 25				
	"	10335	157.88E	11 34 49				
	"	10336	133.21E	13 12 13				
	"	10337	108.54E	14 49 36				
	"	10338	083.87E	16 27 00				
	"	10339	059.20E	18 04 24				
	"	10340	034.53E	19 41 48				
	"	10341	009.86E	21 19 12				
	"	10342	014.80W	22 56 36				
May 19, 1965	700	10343	039.47W	00 34 00				
	"	10344	064.14W	02 11 23				
	"	10345	088.81W	03 48 47				
	"	10346	113.48W	05 26 11				
	"	10347	138.15W	07 03 35				
	"	10348	162.82W	08 40 59				
	"	10349	172.50E	10 18 23				
	"	10350	147.83E	11 55 47				
	"	10351	123.16E	13 33 11				
	"	10352	098.48E	15 10 34				
May 20, 1965	"	10353	073.82E	16 47 58				
	"	10354	049.15E	18 25 22				
	"	10355	024.48E	20 02 46				
	"	10356	000.19W	21 40 10				
	"	10357	024.86W	23 17 34				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RASA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
May 20, 1965	701	10361	123. 54W	05 47 09				
	701	10362	148. 21W	07 24 33				
	701	10363	172. 88W	09 01 57				
	701	10364	162. 44E	10 39 21				
	701	10365	137. 77E	12 16 45	59. 4	-24. 6	63. 1	-15. 9
	701	10366	113. 10E	13 54 08				
	701	10367	088. 43E	15 31 32				
	701	10368	063. 76E	17 08 56				
	701	10369	039. 09E	18 46 20				
	701	10370	014. 42E	20 23 44				
May 20, 1965	701	10371	010. 24W	22 01 08				
	701	10372	034. 91W	23 38 32				
May 21, 1965	702	10373	059. 58W	01 15 56				
	702	10374	084. 25W	02 53 19				
	702	10375	108. 92W	04 30 43				
	702	10376	133. 59W	06 08 07				
	702	10377	158. 26W	07 45 31				
	702	10378	177. 06E	09 22 55				
	702	10379	152. 39E	11 00 19	60. 6	-24. 5	62. 7	-18. 7
	702	10380	127. 72E	12 37 43				
	702	10381	103. 04E	14 15 06				
	702	10382	078. 38E	15 52 30				
May 21, 1965	702	10383	053. 71E	17 29 54				
	702	10384	029. 03E	19 07 18				
	702	10385	004. 36E	20 44 42				
	702	10386	020. 30W	22 22 06				
	702	10387	044. 97W	23 59 30				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	GAMMA (Deg)
May 22, 1965									
"	703	10388	069. 64W	01 36 53					
"	703	10389	094. 31W	03 14 17	61. 5	-24. 3	62. 4	-20. 6	41. 1
"	703	10390	118. 98W	04 51 41					
"	703	10391	143. 65W	06 29 05					
"	703	10392	168. 32W	08 06 29					
"	703	10393	167. 00E	09 43 53					
"	703	10394	142. 33E	11 21 17	62. 0	-24. 2	62. 4	-21. 7	42. 2
MAC SWITCH CHANGED FROM POSITION 9 TO 11									
"	703	10395	117. 66E	12 58 40					
"	703	10396	092. 99E	14 36 04	62. 3	-23. 9	62. 6	-22. 5	43. 1
"	703	10397	068. 32E	16 13 28					
"	703	10398	043. 65E	17 50 52					
"	703	10399	018. 98E	19 28 16					
"	703	10400	005. 68W	21 05 40					
May 22, 1965									
"	703	10401	030. 35W	22 43 04					
May 23, 1965									
"	704	10402	055. 02W	00 20 28					
"	704	10403	079. 69W	01 57 51					
"	704	10404	104. 36W	03 35 15					
"	704	10405	129. 03W	05 12 39					
"	704	10406	153. 70W	06 50 03					
"	704	10407	178. 38W	08 27 27					
"	704	10408	156. 95E	10 04 51					
"	704	10409	132. 27E	11 42 15	64. 2	-21. 6	64. 2	-28. 1	48. 9
"	704	10410	107. 61E	13 19 39					
"	704	10411	082. 94E	14 57 02					
"	704	10412	058. 27E	16 34 26					
May 23, 1965									
	704	10413	033. 59E	18 11 50					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
May 23, 1965	704	1041 4	008. 93E	19 49 14				
"	704	1041 5	015. 74W	21 26 38				
May 23, 1965	704	1041 6	040. 41W	23 04 02				
May 24, 1965	705	1041 7	065. 08W	00 41 26				
"	705	1041 8	089. 75W	02 18 49				
"	705	1041 9	114. 41W	03 56 13				
"	705	10420	139. 09W	05 33 37				
"	705	10421	163. 75W	07 11 01				
"	705	10422	171. 56E	08 48 25				
"	705	10423	146. 89E	10 25 49	66. 4	-19. 0	66. 7	-34. 0
			MAC SWITCH CHANGED FROM POSITION 11 TO 0					
"	705	10424	122. 22E	12 03 13				
"	705	10425	097. 55E	13 40 36				
"	705	10426	072. 88E	15 18 00				
"	705	10427	048. 21E	16 55 24				
"	705	10428	023. 54E	18 32 48				
"	705	10429	001. 12W	20 10 12				
"	705	10430	025. 79W	21 47 36				
May 24, 1965	705	10431	050. 46W	23 25 00				
May 25, 1965	706	10432	075. 14W	01 02 21				
"	706	10433	099. 81W	02 39 45				
"	706	10434	124. 48W	04 17 09				
"	706	10435	149. 15W	05 54 33				
"	706	10436	173. 82W	07 31 57				
"	706	10437	161. 50E	09 09 21	67. 1	-19. 9	66. 5	-34. 3
"	706	10438	136. 83E	10 46 44	67. 2	-19. 9	66. 5	-34. 3
May 25, 1965	706	10439	112. 16E	12 24 08				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (Deg)	f Time (UT) (Hr Min Sec)	g RA SA (Min AAN) (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
May 25, 1965	706	10440	087.49E	14 01 32				
"	706	10441	062.82E	15 38 56				
"	706	10442	038.15E	17 16 20				
"	706	10443	013.48E	18 53 44				
"	706	10444	011.18W	20 31 08				
"	706	10445	035.85W	22 08 31				
May 25, 1965	706	10446	060.52W	23 45 55				
May 26, 1965	707	10447	085.20W	01 23 19	67.7	-20.5	66.5	-34.5 55.7
"	707	10448	109.86W	03 00 43	67.8	-20.5	66.5	-34.5 55.7
"	707	10449	134.54W	04 38 07				
"	707	10450	159.21W	06 15 31				
"	707	10451	176.11E	07 52 54				
"	707	10452	151.44E	09 30 18	68.0	-20.8	66.4	-34.5 55.7
"	707	10453	126.77E	11 07 42	68.0	-20.8	66.4	-34.5 55.7
"	707	10454	102.11E	12 45 06	68.1	-20.9	66.3	-34.5 55.7
"	707	10455	077.43E	14 22 30				
"	707	10456	052.76E	15 59 54				
"	707	10457	028.10E	17 37 18				
"	707	10458	003.42E	19 14 41				
"	707	10459	021.24W	20 52 05				
May 26, 1965	707	10460	045.91W	22 29 29				
May 27, 1965	708	10461	070.58W	00 06 53	68.5	-21.4	66.2	-34.4 55.7
"	708	10462	095.25W	01 44 17				
"	708	10463	119.92W	03 21 41				
"	708	10464	144.59W	04 59 04				
"	708	10465	169.26W	06 36 28	68.7	-21.6	66.1	-34.4 55.7
May 27, 1965	708	10466	166.06E	08 13 52	68.7	-21.7	66.1	-34.4 55.7

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
May 27, 1965	708	10467	141.39E	09 51 16				
"	708	10468	116.72E	11 28 40				
"	708	10469	092.05E	13 06 04				
"	708	10470	067.38E	14 43 27				
"	708	10471	042.71E	16 20 51				
"	708	10472	018.04E	17 58 15				
"	708	10473	006.62W	19 35 39				
"	708	10474	031.29W	21 13 03				
May 27, 1965	708	10475	055.96W	22 50 27	69.2	-22.2	66.0	-34.4 55.8
May 28, 1965	709	10476	080.63W	00 27 51				
"	709	10477	105.30W	02 05 14				
"	709	10478	129.97W	03 42 38				
"	709	10479	154.64W	05 20 02				
"	709	10480	179.31W	06 57 26				
"	709	10481	156.01E	08 34 50	69.6	-22.6	65.9	-34.2 55.6
"	709	10482	131.34E	10 12 14	69.6	-22.7	65.9	-34.2 55.6
"	709	10483	106.66E	11 49 37	69.7	-22.8	65.9	-34.1 55.6
"	709	10484	082.00E	13 27 01				
"	709	10485	057.33E	15 04 25				
"	709	10486	032.66E	16 41 49				
"	709	10487	007.98E	18 19 13				
"	709	10488	016.68W	19 56 36				
"	709	10489	041.35W	21 34 00				
May 28, 1965	709	10490	066.01W	23 11 24				
May 29, 1965	710	10491	090.69W	00 48 48	70.1	-23.4	65.7	-33.9 55.5
"	710	10492	115.36W	02 26 12	70.2	-23.4	65.7	-33.9 55.4
May 29, 1965	710	10493	140.03W	04 03 36				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
May 29, 1965	710	10494	164.69W	05 41 00				
	"	10495	170.62E	07 18 23	70.3	-23.6	65.7	-33.8 55.4
	"	10496	145.95E	08 55 47	70.4	-23.7	65.6	-33.8 55.4
	"	10497	121.28E	10 33 11	70.5	-23.7	65.6	-33.7 55.4
	"	10498	096.61E	12 10 35	70.5	-23.8	65.6	-33.7 55.3
	"	10499	071.94E	13 47 59				
	"	10500	047.27E	15 25 23				
	"	10501	022.60E	17 02 47				
	"	10502	002.06W	18 40 10				
	"	10503	026.73W	20 17 34				
May 29, 1965	"	10504	051.40W	21 54 58				
	107	10505	076.07W	23 32 22				
May 30, 1965	711	10506	100.74W	01 09 46	70.9	-24.2	65.4	-33.5 55.2
	"	10507	125.41W	02 47 10				
	"	10508	150.08W	04 24 33				
	"	10509	174.75W	06 01 57				
	"	10510	160.57E	07 39 21				
	"	10511	135.90E	09 16 45				
	"	10512	111.23E	10 54 09				
	"	10513	086.56E	12 31 33				
	"	10514	061.89E	14 08 57				
	"	10515	037.22E	15 46 20				
May 30, 1965	"	10516	012.55E	17 23 44				
	"	10517	012.11W	19 01 08				
	"	10518	036.78W	20 38 32				
May 30, 1965	"	10519	061.45W	22 15 56				
	"	10520	086.12W	23 53 19	71.6	-24.6	64.4	-33.4 55.3

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
May 31, 1965	71.2	10521	110.79W	01 30 43	71.6	-24.6	64.3	-33.4 55.3
"	71.2	10522	135.46W	03 08 07				
"	71.2	10523	160.13W	04 45 31				
"	71.2	10524	175.19E	06 22 55				
"	71.2	10525	150.52E	08 00 19				
"	71.2	10526	125.85E	09 37 42				
"	71.2	10527	101.18E	11 15 06				
"	71.2	10528	076.51E	12 52 36				
"	71.2	10529	051.84E	14 29 54				
"	71.2	10530	027.16E	16 07 18				
"	71.2	10531	002.50E	17 44 42				
"	71.2	10532	022.17W	19 22 05				
"	71.2	10533	046.83W	20 59 29				
May 31, 1965	71.2	10534	071.50W	22 36 53	72.2	-25.2	63.5	-33.0 55.2
June 1, 1965	71.3	10535	096.21W	00 14 20	72.3	-25.2	63.5	-33.0 55.2
			MAC SWITCH CHANGED FROM POSITION 0 TO 11					
"	71.3	10536	120.88W	01 51 44				
"	71.3	10537	145.55W	03 29 07				
"	71.3	10538	170.22W	05 06 31				
"	71.3	10539	165.10E	06 43 55				
"	71.3	10540	140.43E	08 21 19				
"	71.3	10541	115.76E	09 58 43				
"	71.3	10542	091.09E	11 36 07				
"	71.3	10543	066.42E	13 13 31				
"	71.3	10544	041.75E	14 50 55				
"	71.3	10545	017.08E	16 28 18				
June 1, 1965	71.3	10546	007.58W	18 05 42				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f t_o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	j GAMMA (Deg)
June 1, 1965	71.3	10547	032.25W	19 43 06					
"	71.3	10548	056.92W	21 20 30					
June 1, 1965	71.3	10549	081.59W	22 57 54	74.1	-25.6	67.1	-32.5	54.7
June 2, 1965	71.4	10550	106.26W	00 35 18	74.2	-25.6	67.4	-32.4	54.6
"	71.4	10551	130.94W	02 12 41					
"	71.4	10552	155.60W	03 50 05					
"	71.4	10553	179.72E	05 27 29					
"	71.4	10554	155.04E	07 04 53	74.7	-25.8	68.4	-32.0	54.2
"	71.4	10555	130.37E	08 42 17	74.9	-25.8	68.6	-31.9	54.2
"	71.4	10556	105.70E	10 19 41					
"	71.4	10557	081.04E	11 57 05					
"	71.4	10558	056.37E	13 34 29					
"	71.4	10559	031.69E	15 11 52					
"	71.4	10560	007.02E	16 49 16					
"	71.4	10561	017.64W	18 26 40					
"	71.4	10562	042.31W	20 04 04					
"	71.4	10563	066.97W	21 41 28					
June 2, 1965	71.4	10564	091.65W	23 18 52					
June 3, 1965	71.5	10565	116.32W	00 56 15	76.2	-26.3	71.1	-30.9	53.2
"	71.5	10566	140.99W	02 33 39					
"	71.5	10567	165.66W	04 11 03					
"	71.5	10568	169.66E	05 48 27					
"	71.5	10569	144.99E	07 25 51	76.7	-26.6	71.9	-30.2	52.5
"	71.5	10570	120.32E	09 03 15	76.8	-26.7	72.1	-30.0	52.3
"	71.5	10571	095.65E	10 40 38					
"	71.5	10572	070.98E	12 18 02					
June 3, 1965	71.5	10573	046.31E	13 55 26					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
June 3, 1965	715	10574	021. 64E	15 32 50				
"	715	10575	003. 02W	17 10 14				
"	715	10576	027. 69W	18 47 38				
"	715	10577	052. 36W	20 25 02				
"	715	10578	077. 03W	22 02 25				
June 3, 1965	715	10579	101. 70W	23 39 49	78.0	-27.4	73.9	-28.3
								50.7
June 4, 1965	716	10580	126. 37W	01 17 13				
"	716	10581	151. 04W	02 54 37				
"	716	10582	175. 71W	04 32 01				
"	716	10583	159. 61E	06 09 25	78.4	-27.9	74.0	-27.5
"	716	10584	134. 94E	07 46 49	78.5	-28.0	74.0	49.7
"	716	10585	110. 27E	09 24 12	78.6	-28.1	74.0	-27.0
"	716	10586	085. 59E	11 01 36				49.5
"	716	10587	060. 93E	12 39 00				
"	716	10588	036. 26E	14 16 24				
"	716	10589	011. 58E	15 53 48				
"	716	10590	013. 07W	17 31 12				
"	716	10591	037. 75W	19 08 36				
"	716	10592	062. 41W	20 45 59	79.2	-28.9	74.3	-25.6
June 4, 1965	716	10593	087. 08W	22 23 23	79.3	-29.0	74.3	-25.3
								47.9
June 5, 1965	717	10594	111. 76W	00 00 47				
"	717	10595	136. 43W	01 38 11				
"	717	10596	161. 09W	03 15 35	79.9	-29.3	75.1	-24.3
"	717	10597	174. 23E	04 52 59				46.8
"	717	10598	149. 55E	06 30 23	80.3	-29.6	75.7	-23.5
"	717	10599	124. 88E	08 07 46				46.2
June 5, 1965	717	10600	100. 21E	09 45 10				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (UT) (Hr Min Sec)	f Time (UT) (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
June 5, 1965	71.7	10601	075.54E	11 22 34				
"	71.7	10602	050.87E	12 59 58				
"	71.7	10603	026.20E	14 37 22				
"	71.7	10604	001.53E	16 14 46				
"	71.7	10605	023.13W	17 52 10				
"	71.7	10606	047.80W	19 29 33	81.7	-30.5	77.8	-20.7
"	71.7	10607	072.47W	21 06 57				43.5
"	71.7	10608	097.14W	22 44 21	82.1	-30.7	78.3	42.8
June 5, 1965	71.8	10609	121.81W	00 21 45				
"	71.8	10610	146.48W	01 59 09				
"	71.8	10611	171.15W	03 36 32	82.5	-31.1	78.6	-18.9
"	71.8	10612	164.17E	05 13 56	82.7	-31.2	78.7	-18.5
"	71.8	10613	139.50E	06 51 20				41.7
"	71.8	10614	114.83E	08 28 44				41.4
"	71.8	10615	090.15E	10 06 08				
"	71.8	10616	065.49E	11 43 32				
"	71.8	10617	040.82E	13 20 56				
"	71.8	10618	016.15E	14 58 20				
"	71.8	10619	008.51W	16 35 43				
"	71.8	10620	033.19W	18 13 07	83.9	-32.1	79.5	-15.6
"	71.8	10621	057.85W	19 50 31				38.6
"	71.8	10622	082.52W	21 27 55	84.2	-32.4	79.7	-14.9
"	71.8	10623	107.19W	23 05 19	84.4	-32.5	79.9	-14.5
June 6, 1965			MAC SWITCH CHANGED FROM POSITION 11 TO 7					37.5
June 7, 1965	71.9	10624	131.87W	00 42 43				
"	71.9	10625	156.54W	02 20 06	84.5	-32.3	79.7	-14.4
June 7, 1965	71.9	10626	178.79E	03 57 30				37.4

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
June 7, 1965	71 9	10627	154.12E	05 34 54	84. 6	-32. 2	79. 6	-14. 3
	71 9	10628	129.44E	07 12 18	84. 7	-32. 1	79. 6	-14. 3
	"	71 9	10629	114.77E	08 49 42			
	"	71 9	10630	080.10E	10 27 06			
	"	71 9	10631	055.43E	12 04 30			
	"	71 9	10632	030.76E	13 41 53			
	"	71 9	10633	106.09E	15 19 17			
	"	71 9	10634	018.57W	16 56 41			
	"	71 9	10635	043.24W	18 34 05			
	"	71 9	10636	067.91W	20 11 29	85. 1	-31. 4	79. 2
June 7, 1965	71 9	10637	092.58W	21 48 53	85. 2	-31. 3	79. 1	-13. 9
	"	71 9	10638	117.25W	23 26 17			
	72 0	10639	141.92W	01 03 38				
	"	72 0	10640	166.59W	02 41 02	85. 4	-31. 1	79. 0
	"	72 0	10641	168.73E	04 18 25	85. 4	-31. 0	78. 9
June 8, 1965	72 0	10642	144.06E	05 55 49				
	"	72 0	10643	119.39E	07 33 13			
	"	72 0	10644	094.72E	09 10 37			
	"	72 0	10645	070.05E	10 48 01			
	"	72 0	10646	045.38E	12 25 25			
	"	72 0	10647	020.71E	14 02 48			
	"	72 0	10648	003.95W	15 40 12			
	"	72 0	10649	028.62W	17 17 36			
	"	72 0	10650	053.29W	18 55 00	86. 0	-30. 3	78. 4
	"	72 0	10651	077.96W	20 32 24			
June 8, 1965	"	72 0	10652	102.63W	22 09 48			
	"	72 0	10653	127.30W	23 47 11			

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (UT) (Hr Min Sec)	f Time (UT) (Min AAN)	g n. _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	J GAMMA (Deg)
June 9, 1965	721	10654	151.97W	01 24 35	86.2	-30.0	78.2	-12.9	35.8
"	721	10655	176.64W	03 01 59					
"	721	10656	158.68E	04 39 23	86.3	-29.8	78.1	-12.8	35.7
"	721	10657	134.01E	06 16 47	86.4	-29.7	78.0	-12.8	35.7
"	721	10658	109.34E	07 54 11					
"	721	10659	084.67E	09 31 34					
"	721	10660	059.99E	11 08 58					
"	721	10661	035.33E	12 46 22					
"	721	10662	010.65E	14 23 46					
"	721	10663	014.01W	16 01 10					
"	721	10664	038.67W	17 38 34					
"	721	10665	063.34W	19 15 57	86.8	-28.9	77.6	-12.4	35.4
"	721	10666	088.01W	20 53 21					
"	721	10667	112.69W	22 30 45					
June 9, 1965	722	10668	137.35W	00 08 09	87.0	-28.6	77.5	-12.3	35.3
"	722	10669	162.02W	01 45 33					
"	722	10670	173.29E	03 22 57					
"	722	10671	148.62E	05 00 20	87.1	-28.3	77.3	-12.1	35.1
"	722	10672	123.95E	06 37 44	87.2	-28.2	77.3	-12.0	35.0
"	722	10673	099.29E	08 15 08					
"	722	10674	074.61E	09 52 32					
"	722	10675	049.94E	11 29 56					
"	722	10676	025.27E	13 07 20					
"	722	10677	000.60E	14 44 43					
"	722	10678	024.06W	16 22 07					
"	722	10679	048.73W	17 59 31					
June 10, 1965	722	10680	073.39W	19 36 55	87.7	-27.4	77.0	-11.5	34.6

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	RASA (Deg)	DEC SA (Deg)	i GAMMA (Deg)
June 10, 1965	722	10681	098.07W	21 14 19	87.8	-27.3	77.0	-11.4	34.5
June 10, 1965	722	10682	122.74W	22 51 43	87.8	-27.2	76.9	-11.4	34.5
MAC SWITCH CHANGED FROM POSITION 7 TO 0									
June 11, 1965	723	10683	147.41W	00 29 06					
"	723	10684	172.08W	02 06 30	87.9	-26.8	76.8	-11.5	34.6
"	723	10685	163.24E	03 43 54	87.9	-26.6	76.8	-11.6	34.7
"	723	10686	138.57E	05 21 18					
"	723	10687	113.90E	06 58 42					
"	723	10688	089.23E	08 36 06					
"	723	10689	064.56E	10 13 29					
"	723	10690	039.89E	11 50 53					
"	723	10691	015.22E	13 28 17					
"	723	10692	009.44W	15 05 41					
"	723	10693	034.11W	16 43 05	88.2	-25.1	76.6	-11.9	35.2
"	723	10694	058.78W	18 20 29					
"	723	10695	083.45W	19 57 52	88.3	-24.7	76.5	-12.0	35.3
"	723	10696	108.12W	21 35 16					
June 11, 1965	723	10697	132.79W	23 12 40					
June 12, 1965	724	10698	157.46W	00 50 04	88.4	-24.1	76.4	-12.2	35.5
"	724	10699	177.86E	02 27 28					
"	724	10700	153.19E	04 04 51	88.5	-23.7	76.4	-12.3	35.6
"	724	10701	128.52E	05 42 15					
"	724	10702	103.85E	07 19 39					
"	724	10703	079.18E	08 57 03					
"	724	10704	054.51E	10 34 27					
"	724	10705	029.84E	12 11 51					
June 12, 1965	724	10706	005.17E	13 49 14					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (Hr Min Sec)	f Time (UT) (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
June 12, 1965	724	1.0707	019.49W	15 26 38				
"	724	1.0708	044.16W	17 04 02	88.7	-22.1	76.3	-12.7
"	724	1.0709	068.84W	18 41 26				36.1
"	724	1.0710	093.50W	20 18 50	88.8	-21.7	76.2	
"	724	1.0711	118.17W	21 56 14				36.2
June 12, 1965	724	1.0712	142.85W	23 33 37				
June 13, 1965	725	1.0713	167.51W	01 11 01	88.9	-21.1	76.1	-12.9
"	725	1.0714	167.81E	02 48 25	89.0	-20.9	76.1	-12.9
"	725	1.0715	143.14E	04 25 49	89.0	-20.7	76.1	-12.9
"	725	1.0716	118.46E	06 03 13	89.0	-20.6	76.1	-13.0
"	725	1.0717	193.80E	07 40 37				36.5
"	725	1.0718	069.13E	09 18 00				
"	725	1.0719	044.45E	10 55 24				
"	725	1.0720	019.78E	12 32 48				
"	725	1.0721	004.87W	14 10 12				
"	725	1.0722	029.55W	15 47 36	89.3	-19.4	75.9	
"	725	1.0723	054.22W	17 24 59				
"	725	1.0724	078.89W	19 02 23				
"	725	1.0725	103.55W	20 39 47	89.4	-18.9	75.9	
"	725	1.0726	128.22W	22 17 11				
June 13, 1965	725	1.0727	152.90W	23 54 35				
115								
June 14, 1965	726	1.0728	177.56W	01 31 59	89.5	-18.3	75.8	-13.3
"	726	1.0729	157.76E	03 09 23	89.5	-18.1	75.8	-13.3
"	726	1.0730	133.08E	04 46 46	89.5	-17.9	75.8	-13.3
"	726	1.0731	108.41E	06 24 10				37.1
"	726	1.0732	083.74E	08 01 34				
June 14, 1965	726	1.0733	059.07E	09 38 58				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
June 14, 1965	726	10734	034. 40E	11 16 22				
"	726	10735	009. 73E	12 53 45				
"	726	10736	014. 93W	14 31 09				
"	726	10737	039. 60W	16 08 33	89. 8	-16. 6	75. 7	-13. 5
"	726	10738	064. 27W	17 45 57				37. 4
"	726	10739	088. 94W	19 23 21	89. 9	-16. 2	75. 6	-13. 5
"	726	10740	113. 61W	21 00 45				37. 5
June 14, 1965	726	10741	138. 28W	22 38 08				
June 15, 1965	727	10742	162. 95W	00 15 32	90. 0	-15. 6	75. 6	-13. 6
"	727	10743	172. 37E	01 52 56				37. 6
"	727	10744	147. 70E	03 30 20	90. 1	-15. 2	75. 6	-13. 7
"	727	10745	123. 03E	05 07 44				37. 7
"	727	10746	098. 36E	06 45 08				
"	727	10747	073. 69E	08 22 31				
"	727	10748	049. 02E	09 59 55				
"	727	10749	024. 35E	11 37 19				
"	727	10750	000. 31W	13 14 43				
"	727	10751	024. 98W	14 52 07				
"	727	10752	049. 65W	16 29 30	90. 4	-13. 5	75. 6	-13. 9
"	727	10753	074. 32W	18 06 54				38. 1
"	727	10754	098. 99W	19 44 18	90. 5	-13. 0	75. 6	-13. 9
"	727	10755	123. 66W	21 21 42				
June 15, 1965	727	10756	148. 33W	22 59 06				
June 16, 1965	728	10757	173. 00W	00 36 30	90. 6	-12. 4	75. 6	-14. 0
"	728	10758	162. 32E	02 13 53	90. 6	-12. 2	75. 6	-14. 0
"	728	10759	137. 65E	03 51 17	90. 6	-12. 0	75. 6	-14. 0
June 16, 1965	728	10760	112. 98E	05 28 41	90. 7	-11. 9	75. 6	-14. 0
								38. 3

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
June 16, 1965	728	1.0761	088.31E	07 06 05				
"	728	1.0762	063.64E	08 43 29				
"	728	1.0763	038.97E	10 20 53				
"	728	1.0764	014.30E	11 58 16				
"	728	1.0765	010.36W	13 35 40				
"	728	1.0766	035.03W	15 13 04	90.9	-10.7	75.5	-14.0
"	728	1.0767	059.71W	16 50 28				
"	728	1.0768	084.37W	18 27 52				
"	728	1.0769	109.04W	20 05 15				
"	728	1.0770	133.71W	21 42 39	91.0	-10.0	75.4	-14.1
June 16, 1965	728	1.0771	158.39W	23 20 03				
June 17, 1965	729	1.0772	176.94E	00 57 27				
"	729	1.0773	152.26E	02 34 51	91.2	-9.5	75.4	-13.9
"	729	1.0774	127.59E	04 12 15				
"	729	1.0775	102.93E	05 49 38				
"	729	1.0776	078.26E	07 27 02				
"	729	1.0777	053.58E	09 04 26				
"	729	1.0778	028.92E	10 41 50				
"	729	1.0779	004.24E	12 19 14				
"	729	1.0780	020.41W	13 56 38				
"	729	1.0781	045.08W	15 34 01	93.3	-12.5	75.3	-6.0
"	729	1.0782	069.76W	17 11 25				
"	729	1.0783	094.43W	18 48 49	93.8	-13.2	75.3	-4.1
June 17, 1965	729	1.0784	119.09W	20 26 13				
"	729	1.0785	143.76W	22 03 37				
"	729	1.0786	168.44W	23 41 00	93.9	-12.7	75.1	-4.0

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	g GAMMA (Deg)
June 18, 1965	730	10787	166.89E	01 18 24	93.9	-12.5	75.1	-4.0	29.5
"	730	10788	142.21E	02 55 48	94.0	-12.3	75.1	-4.1	29.6
"	730	10789	117.54E	04 33 12					
"	730	10790	92.87E	06 10 36					
"	730	10791	68.20E	07 48 00					
"	730	10792	043.53E	09 25 23					
"	730	10793	018.86E	11 02 47					
"	730	10794	005.80W	12 40 11					
"	730	10795	030.47W	14 17 35	94.2	-10.8	75.1	-4.1	29.8
"	730	10796	055.14W	15 54 59					
"	730	10797	079.81W	17 32 23					
"	730	10798	104.48W	19 09 46	94.3	-10.1	75.1	-4.2	29.9
"	730	10799	129.15W	20 47 10					
June 18, 1965	730	10800	153.82W	22 24 34					
June 19, 1965	731	10801	178.49W	00 01 58					
"	731	10802	156.83E	01 39 22					
"	731	10803	132.16E	03 16 45	94.5	-9.1	75.1	-4.2	30.1
"	731	10804	107.49E	04 54 09					
"	731	10805	082.82E	06 31 33					
"	731	10806	058.15E	08 08 57					
"	731	10807	033.48E	09 46 21					
"	731	10808	008.81E	11 23 45					
"	731	10809	015.85W	13 01 08					
"	731	10810	040.52W	14 38 32	94.8	-7.6	75.1	-4.1	30.2
"	731	10811	065.19W	16 15 56					
"	731	10812	089.86W	17 53 20	94.9	-7.1	75.1	-4.1	30.3
June 19, 1965	731	10813	114.53W	19 30 44					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c CRBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
June 19, 1965	731	10814	139.20W	21 08 08	95.0	-6.7	75.1	-4.1
June 19, 1965	731	10815	163.87W	22 45 31				30.3
June 20, 1965	"	10816	171.45E	00 22 55				
"	732	10817	146.78E	02 00 19				
"	732	10818	122.11E	03 37 43				
"	732	10819	097.44E	05 15 07				
"	732	10820	072.77E	06 52 30				
"	732	10821	048.10E	08 29 54				
"	732	10822	023.43E	10 07 18				
"	732	10823	001.23W	11 44 42				
"	732	10824	025.90W	13 22 06				
"	732	10825	050.57W	14 59 29	95.5	-4.2	75.5	-3.9
"	732	10826	075.24W	16 36 53				
"	732	10827	099.91W	18 14 17	95.5	-3.7	75.6	-3.8
"	732	10828	124.58W	19 51 41	95.6	-3.5	75.6	-3.8
"	732	10829	149.25W	21 29 05				30.3
June 20, 1965	732	10830	173.92W	23 06 29				
June 21, 1965	"	10831	161.40E	00 43 52				
"	733	10832	136.73E	02 21 16				
"	733	10833	112.06E	03 58 40				
"	733	10834	087.38E	05 36 04				
"	733	10835	062.71E	07 13 28				
"	733	10836	038.05E	08 50 51				
"	733	10837	013.38E	10 28 15				
"	733	10838	011.28W	12 05 39				
"	733	10839	035.95W	13 43 03	96.1	-1.2	75.7	-3.4
June 21, 1965	733	10840	060.62W	15 20 27				30.3

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
June 21, 1965	733	10841	085. 30W	16 57 51	96. 2	-0. 8	75. 7	-3. 4
"	733	10842	109. 97W	18 35 14				30. 3
"	733	10843	134. 63W	20 12 38				
"	733	10844	159. 30W	21 50 02				
June 21, 1965	733	10845	176. 02E	23 27 26				
June 22, 1965	734	10846	151. 28E	01 04 55				
"	734	10847	126. 62E	02 42 19				
"	734	10848	101. 95E	04 19 43				
"	734	10849	077. 28E	05 57 07				
"	734	10850	052. 60E	07 34 31				
"	734	10851	027. 93E	09 11 55				
"	734	10852	003. 27E	10 49 19				
"	734	10853	021. 40W	12 26 42				
"	734	10854	046. 07W	14 04 06				
"	734	10855	070. 74W	15 41 30				
"	734	10856	095. 41W	17 18 54				
"	734	10857	120. 08W	18 56 18				
"	734	10858	144. 75W	20 33 42				
"	734	10859	169. 42W	22 11 06				
June 22, 1965	734	10860	165. 90E	23 48 29				
June 23, 1965	735	10861	141. 23E	01 25 53				
"	735	10862	116. 56E	03 03 17				
"	735	10863	091. 89E	04 40 41				
"	735	10864	067. 22E	06 18 05				
"	735	10865	042. 55E	07 55 29				
"	735	10866	017. 88E	09 32 53				
June 23, 1965	735	10867	006. 78W	11 10 17				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (Hr Min Sec)	f Time (UT) (Min AAN)	g RA SA. (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
June 23, 1965	735	10868	031.45W	12 47 40				
"	735	10869	056.12W	14 25 04				
"	735	10870	080.79W	16 02 28				
"	735	10871	105.46W	17 39 52				
"	735	10872	130.13W	19 17 16	0.1	5.8	76.0	-2.7
"	735	10873	154.80W	20 54 40	0.2	6.2	76.0	-2.7
June 23, 1965	735	10874	179.47W	22 32 04				
June 24, 1965	736	10875	155.85E	00 09 27				
"	736	10876	131.18E	01 46 51				
"	736	10877	106.51E	03 24 15				
"	736	10878	081.83E	05 01 39				
"	736	10879	057.16E	06 39 03				
"	736	10880	032.49E	08 16 27				
"	736	10881	007.83E	09 53 51				
"	736	10882	016.84W	11 31 14				
"	736	10883	041.51W	13 08 38				
"	736	10884	066.18W	14 46 02				
"	736	10885	090.85W	16 23 26				
"	736	10886	115.52W	18 00 50				
"	736	10887	140.19W	19 38 14				
"	736	10888	164.86W	21 15 38				
June 24, 1965	736	10889	170.46E	22 53 02	0.7	9.5	76.0	-2.8
June 25, 1965	737	10890	145.79E	00 30 25	0.7	9.7	76.0	-2.9
					MAC SWITCH CHANGED FROM POSITION 0 TO 1			31.3
"	737	10891	121.12E	02 07 49				
"	737	10892	096.45E	03 45 13				
June 25, 1965	737	10893	071.78E					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
June 25, 1965	737	10894	047.11E	07 00 01				
	"	10895	022.44E	08 37 25				
	"	10896	002.22W	10 14 49				
	"	10897	026.89W	11 52 13				
	"	10898	051.57W	13 29 36				
	"	10899	076.24W	15 07 00				
	"	10900	100.90W	16 44 24	1.0	12.1	75.9	-3.4 32.2
	"	10901	125.57W	18 21 48	1.0	12.3	75.9	-3.4 32.3
	"	10902	150.24W	19 59 12				
	"	10903	174.91W	21 36 36				
June 25, 1965	737	10904	160.41E	23 14 00	1.0	13.0	75.8	-3.6 32.5
	738	10905	135.73E	00 51 24				
	"	10906	111.07E	02 28 47				
	"	10907	086.40E	04 06 11				
	"	10908	061.73E	05 43 35				
	"	10909	037.05E	07 20 59				
	"	10910	012.38E	08 58 23				
	"	10911	012.28W	10 35 47				
	"	10912	036.95W	12 13 11				
	"	10913	061.62W	13 50 35				
June 26, 1965	738	10914	086.29W	15 27 58				
	"	10915	110.96W	17 05 22				
	"	10916	135.63W	18 42 46				
	"	10917	160.30W	20 20 10				
	"	10918	175.02E	21 57 34				
	"	10919	150.35E	23 34 58	1.4	16.3	75.5	-4.2 33.8
	739	10920	125.68E	01 12 22	1.4	16.5	75.5	-4.3 33.9

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
June 27, 1965	739	10921	101.01E	02 49 45	1.4	16.8	75.4	-4.3
	"	10922	076.34E	04 27 09				34.0
	739	10923	051.67E	06 04 33				
	"	10924	026.99E	07 41 57				
	739	10925	002.33E	09 19 21				
	"	10926	022.33W	10 56 45				
	"	10927	047.00W	12 34 09				
	"	10928	071.67W	14 11 33				
	"	10929	096.35W	15 48 56				
	"	10930	121.02W	17 26 20	1.6	18.8	75.3	-4.8
June 27, 1965	"	10931	145.69W	19 03 44				34.8
	"	10932	170.35W	20 41 08				
	"	10933	164.96E	22 18 32	1.7	19.5	75.2	-4.9
	"	10934	140.30E	23 55 56	1.7	19.7	75.2	-5.0
	"							35.2
	"							
	"							
	"							
	"							
	"							
June 28, 1965	740	10935	115.62E	01 33 20				
	"	10936	090.95E	03 10 44	1.8	20.1	75.2	-5.1
	"	10937	066.28E	04 48 08				35.4
	"	10938	041.61E	06 25 31				
	"	10939	016.94E	08 02 55				
	"	10940	007.72W	09 40 19				
	"	10941	032.39W	11 17 43				
	"	10942	057.06W	12 55 07				
	"	10943	081.73W	14 32 31				
	"	10944	106.40W	16 07 55	2.0	21.9	75.0	-5.5
June 28, 1965	"	10945	131.07W	17 47 18	2.0	22.1	74.9	-5.5
	"	10946	155.74W	19 24 42				36.2
	"	10947	179.58E	21 02 06				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	GAMMA (Deg)
June 28, 1965	740	10948	154.91E	22 39 30					
June 29, 1965	741	10949	130.27E	00 16 44	2.1	23.0	74.9	-5.7	36.6
"	741	10950	105.60E	01 54 08	2.3	22.7	74.9	-4.9	36.0
"	741	10951	080.93E	03 31 32					
"	741	10952	056.26E	05 08 55					
"	741	10953	031.58E	06 46 19					
"	741	10954	006.92E	08 23 43					
"	741	10955	017.74W	10 01 07					
"	741	10956	042.42W	11 38 31					
"	741	10957	067.09W	13 15 54					
"	741	10958	091.75W	14 53 18	4.3	20.7	74.9	1.8	31.4
"	741	10959	116.43W	16 30 42					
"	741	10960	141.10W	18 08 06					
"	741	10961	165.76W	19 45 30					
"	741	10962	169.56E	21 22 54					
June 29, 1965	741	10963	144.88E	23 00 17	5.5	19.4	75.0	6.0	28.6
June 30, 1965	742	10964	120.22E	00 37 41					
"	742	10965	095.54E	02 15 05					
"	742	10966	070.87E	03 52 29					
"	742	10967	046.20E	05 29 53					
"	742	10968	021.53E	07 07 17					
"	742	10969	003.13W	08 44 40					
"	742	10970	027.80W	10 22 04					
"	742	10971	052.47W	11 59 28					
"	742	10972	077.14W	13 36 52					
June 30, 1965	742	10973	101.81W	15 14 16					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a	b	c	d	e	f	g	h	i
DATE	JULIAN DAY	ORBIT NUMBER	ASCENDING NODE Time (UT) (Deg)	t _o	n _o	RA SA (Deg)	DEC SA (Deg)	GAMMA (Deg)
June 30, 1965	742	10974	126.48W	16 51 39				
"	742	10975	151.15W	18 29 03				
"	742	10976	175.82W	20 06 27				
"	742	10977	159.50E	21 43 51				
June 30, 1965	742	10978	134.83E	23 21 15	9.1	15.5	76.4	18.4
July 1, 1965	743	10979	110.16E	00 58 38				
"	743	10980	085.49E	02 36 02				
"	743	10981	060.82E	04 13 26				
"	743	10982	036.15E	05 50 50				
"	743	10983	011.48E	07 28 14				
"	743	10984	013.18W	09 05 38				
"	743	10985	037.85W	10 43 01				
"	743	10986	062.52W	12 20 25				
"	743	10987	087.19W	13 57 49				
"	743	10988	111.86W	15 35 13				
"	743	10989	136.53W	17 12 37				
"	743	10990	161.20W	18 50 00				
"	743	10991	174.12E	20 27 24				
"	743	10992	149.45E	22 04 48				
July 1, 1965	743	10993	124.78E	23 42 12	12.7	11.7	79.7	30.3
								20.1
			MAC SWITCH CHANGED FROM POSITION 11 TO 8					
July 2, 1965	744	10994	100.11E	01 19 36				
"	744	10995	075.44E	02 57 00				
"	744	10996	050.77E	04 34 23				
"	744	10997	026.10E	06 11 47				
"	744	10998	001.43E	07 49 11				
July 2, 1965	744	10999	023.23W	09 26 35				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	GAMMA (Deg)
July 2, 1965	744	11000	047. 90W	11 03 59					
"	744	11001	072. 57W	12 41 22					
"	744	11002	097. 24W	14 18 46					
"	744	11003	121. 91W	15 56 10					
"	744	11004	146. 58W	17 33 34					
"	744	11005	171. 25W	19 10 58					
"	744	11006	164. 07E	20 48 21					
July 2, 1965	744	11007	139. 40E	22 25 45	14.1	11.5	80.5	33.7	21.3
					14.2	11.5	80.6	33.9	21.4
July 3, 1965	745	11008	114. 73E	00 03 09					
"	745	11009	090. 06E	01 40 33					
"	745	11010	065. 39E	03 17 57					
"	745	11011	040. 72E	04 55 21					
"	745	11012	016. 05E	06 32 44					
"	745	11013	008. 61W	08 10 08					
"	745	11014	033. 28W	09 47 32					
"	745	11015	057. 95W	11 24 56					
"	745	11016	082. 62W	13 02 20					
"	745	11017	107. 29W	14 39 44					
"	745	11018	131. 96W	16 17 07					
"	745	11019	156. 63W	17 54 31					
"	745	11020	178. 69E	19 31 55					
"	745	11021	154. 02E	21 09 19					
July 3, 1965	745	11022	129. 35E	22 46 43	15.5	11.4	81.5	36.8	23.0
					15.6	11.4	81.7	37.0	23.0
July 4, 1965	746	11023	104. 68E	00 24 06					
"	746	11024	080. 01E	02 01 30					
"	746	11025	055. 34E	03 38 54					
July 4, 1965	746	11026	030. 66E	05 16 18					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e t _o Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
July 4, 1965	746	11027	006.00E	06 53 42	16.9	11.0	83.0	39.9
	"	11028	018.66W	08 31 05				
	746	11029	043.33W	10 08 29				
	746	11030	068.00W	11 45 53				
	"	11031	092.67W	13 23 17				
	746	11032	117.34W	15 00 41				
	"	11033	142.01W	16 38 04				
	"	11034	166.69W	18 15 28				
	746	11035	168.63E	19 52 52				
	"	11036	143.97E	21 30 16				
July 4, 1965	746	11037	119.30E	23 07 40	16.9	11.0	83.0	39.9
	"	11038	094.62E	00 45 04				
	747	11039	069.95E	02 22 27				
	"	11040	045.29E	03 59 51				
	"	11041	020.62E	05 37 15				
	"	11042	004.04W	07 14 39				
	747	11043	028.72W	08 52 03				
	"	11044	053.39W	10 29 26				
	"	11045	078.06W	12 06 50				
	"	11046	102.73W	13 44 14				
July 5, 1965	747	11047	127.39W	15 21 38	16.9	11.0	83.0	39.9
	"	11048	152.07W	16 59 02				
	747	11049	176.74W	18 36 25				
	"	11050	158.59E	20 13 49				
	"	11051	133.91E	21 51 13				
	747	11052	109.24E	23 28 37				
July 6, 1965	748	11053	084.54E	01 06 04	24.6	24.5	40.1	24.6

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
July 6, 1965	748	11054	059. 87E	02 43 28				
"	748	11055	035. 20E	04 20 52				
"	748	11056	010. 53E	05 58 16				
"	748	11057	014. 13W	07 35 40				
"	748	11058	038. 80W	09 13 04				
"	748	11059	063. 47W	10 50 28				
"	748	11060	088. 14W	12 27 51				
"	748	11061	112. 81W	14 05 15	19. 4	10. 6	87. 4	44. 1
"	748	11062	137. 48W	15 42 39				
"	748	11063	162. 15W	17 20 03				
"	748	11064	173. 17E	18 57 27				
"	748	11065	148. 50E	20 34 51	19. 8	10. 5	88. 3	44. 7
"	748	11066	123. 83E	22 12 14	19. 9	10. 5	88. 5	44. 9
"	748	11067	099. 16E	23 49 38	20. 0	10. 5	88. 8	45. 1
July 6, 1965					MAC SWITCH CHANGED FROM POSITION 8 TO 7			
July 7, 1965	749	11068	074. 49E	01 27 02				
"	749	11069	049. 82E	03 04 26				
"	749	11070	025. 15E	04 41 50				
"	749	11071	000. 48E	06 19 14				
"	749	11072	024. 18W	07 56 38				
"	749	11073	048. 85W	09 34 01				
"	749	11074	073. 53W	11 11 25				
"	749	11077	147. 54W	16 03 37				
"	749	11078	172. 21W	17 41 01				
"	749	11079	163. 11E	19 18 24	20. 8	10. 5	89. 8	46. 0
July 7, 1965								27. 1

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f t_o (Min AAN)	g n_o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	j GAMMA (Deg)
July 7, 1965	749	11080	138.44E	20 55 48	20.9	10.5	89.9	46.0	27.2
July 7, 1965	749	11081	113.77E	22 33 12	21.0	10.5	90.0	46.1	27.3
July 8, 1965	"	750	11082	089.10E	00 10 36				
	"	750	11083	064.43E	01 48 00				
	"	750	11084	039.76E	03 25 24				
	"	750	11085	015.09E	05 02 48				
	"	750	11086	009.57W	06 40 11				
	"	750	11087	034.24W	08 17 35				
	"	750	11088	058.91W	09 54 59				
	"	750	11089	083.58W	11 32 23				
	"	750	11090	108.25W	13 09 47				
	"	750	11091	132.92W	14 47 11				
	"	750	11092	157.59W	16 24 34				
	"	750	11093	177.73E	18 01 58				
	"	750	11094	153.06E	19 39 22				
	"	750	11095	128.39E	21 16 46				
July 8, 1965	"	750	11096	103.72E	22 54 10	21.9	10.6	91.1	46.8
									27.9
July 9, 1965	"	751	11097	079.05E	00 31 34				
	"	751	11098	054.38E	02 08 58				
	"	751	11099	029.71E	03 46 21				
	"	751	11100	005.04E	05 23 45				
	"	751	11101	019.62W	07 01 09				
	"	751	11102	044.29W	08 38 33				
	"	751	11103	068.96W	10 15 57				
	"	751	11104	093.63W	11 53 21	22.4	10.7	91.8	47.0
	"	751	11105	118.30W	13 30 45	22.5	10.7	91.9	47.1
July 9, 1965	"	751	11106	142.97W	15 08 08				28.1

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
July 9, 1965	751	11107	167.64W	16 45 32				
"	751	11108	167.68E	18 22 56				
"	751	11109	143.01E	20 00 20	22.8	10.7	92.3	47.2
"	751	11110	118.34E	21 37 44				28.2
July 9, 1965	751	11111	093.67E	23 15 08	22.9	10.7	92.5	47.2
July 10, 1965	752	11112	068.99E	00 52 31				
"	752	11113	044.33E	02 29 55				
"	752	11114	019.66E	04 07 19				
"	752	11115	005.00W	05 44 43				
"	752	11116	029.68W	07 22 07				
"	752	11117	054.34W	08 59 31				
"	752	11118	079.02W	10 36 55				
"	752	11119	103.68W	12 14 18				
"	752	11120	128.36W	13 51 42				
"	752	11121	153.03W	15 29 06				
"	752	11122	177.70W	17 06 30				
"	752	11123	157.62E	18 43 54				
"	752	11124	132.95E	20 21 18				
"	752	11125	108.28E	21 58 42				
July 10, 1965	752	11126	083.61E	23 36 05				
July 11, 1965	753	11127	058.94E	01 13 29				
"	753	11128	034.27E	02 50 53				
"	753	11129	009.60E	04 28 17				
"	753	11130	015.06W	06 05 41				
"	753	11131	039.73W	07 43 05				
"	753	11132	064.40W	09 20 28				
July 11, 1965	753	11133	089.07W	10 57 52				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	j GAMMA (Deg)
MAC SWITCH CHANGED FROM POSITION 7 TO 2									
July 11, 1965	753	11134	113.74W	12 35 16	24.5	10.8	95.5	47.4	28.1
"	753	11135	138.41W	14 12 40					
"	753	11136	163.08W	15 50 04					
"	753	11137	172.24E	17 27 28					
"	753	11138	147.57E	19 04 51					
"	753	11139	122.90E	20 42 15					
"	753	11140	098.23E	22 19 39					
July 11, 1965	753	11141	073.56E	23 57 03	24.7	10.5	94.8	47.7	28.8
July 12, 1965									
"	754	11142	048.89E	01 34 27					
"	754	11143	024.22E	03 11 51					
"	754	11144	000.44W	04 49 15					
"	754	11145	025.11W	06 26 39					
"	754	11146	049.78W	08 04 02					
"	754	11147	074.46W	09 41 26					
"	754	11148	099.12W	11 18 50					
"	754	11149	123.80W	12 56 14					
"	754	11150	148.47W	14 33 38					
"	754	11151	173.13W	16 11 02					
"	754	11152	162.18E	17 48 25					
"	754	11153	137.51E	19 25 49					
"	754	11154	112.84E	21 03 13					
July 12, 1965	754	11155	088.17E	22 40 37	25.4	10.1	94.7	48.0	29.5
July 13, 1965	755	11156	063.50E	00 17 57					
"	755	11157	038.84E	01 55 21					
"	755	11158	014.17E	03 32 45					
July 13, 1965	755	11159	010.49W	05 10 09					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	GAMMA (Deg)
July 13, 1965									
"	755	11160	035.17W	06 47 32					
"	755	11161	059.83W	08 24 56					
"	755	11162	084.50W	10 02 20	25.7	10.1	94.6	47.9	29.7
MAC SWITCH CHANGED FROM POSITION 2 TO 0									
"	755	11163	109.18W	11 39 44					
"	755	11164	133.85W	13 17 08					
"	755	11165	158.52W	14 54 32					
"	755	11166	176.80E	16 31 55					
"	755	11167	152.13E	18 09 19					
"	755	11168	127.46E	19 46 43					
"	755	11169	102.79E	21 24 07					
July 13, 1965	755	11170	078.12E	23 01 31	26.2	9.8	95.3	47.9	29.8
July 14, 1965									
"	756	11171	053.45E	00 38 55					
"	756	11172	028.78E	02 16 18					
"	756	11173	004.11E	03 53 42					
"	756	11174	020.55W	05 31 06					
"	756	11175	045.22W	07 08 30					
"	756	11176	069.89W	08 45 54					
"	756	11177	094.56W	10 23 18					
"	756	11178	119.23W	12 00 41					
"	756	11179	143.90W	13 38 05					
"	756	11180	168.57W	15 15 29					
"	756	11181	166.75E	16 52 53					
"	756	11182	142.08E	18 30 17					
"	756	11183	117.41E	20 07 41					
"	756	11184	092.74E	21 45 04					
July 14, 1965	756	11185	068.07E	23 22 28	27.1	9.5	96.4	47.6	29.6

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN) (Deg)	n _o (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
July 15, 1965	757	11186	043.40E	00 59 52					
"	757	11187	018.73E	02 37 16					
"	757	11188	005.93W	04 14 40					
"	757	11189	030.60W	05 52 04					
"	757	11190	055.27W	07 29 28					
"	757	11191	079.94W	09 06 51					
"	757	11192	104.61W	10 44 15	27.5	9.4	96.9	47.3	29.4
"	757	11193	129.28W	12 21 39					
"	757	11194	153.95W	13 59 03					
"	757	11195	178.62W	15 36 27					
"	757	11196	156.70E	17 13 51	27.7	9.3	97.2	47.2	29.4
"	757	11197	132.03E	18 51 14					
"	757	11198	107.36E	20 28 38					
"	757	11199	082.69E	22 06 02					
July 15, 1965	757	11200	058.01E	23 43 26					
July 16, 1965	758	11201	033.35E	01 20 50					
"	758	11202	008.68E	02 58 14					
"	758	11203	015.98W	04 35 38					
"	758	11204	040.65W	06 13 01					
"	758	11205	065.32W	07 50 25					
"	758	11206	090.00W	09 27 49	28.3	9.1	97.6	46.8	29.2
"	758	11207	114.67W	11 05 13					
"	758	11208	139.34W	12 42 37					
"	758	11209	164.01W	14 20 00					
"	758	11210	171.31E	15 57 24					
"	758	11211	146.64E	17 34 48	28.6	9.0	97.7	46.5	29.2
July 16, 1965	758	11212	121.97E	19 12 12					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	RASA (Deg)	DEC SA (Deg)	h RA SA (Deg)	i GAMMA (Deg)
July 16, 1965	758	11213	097.30E	20 49 36						
July 16, 1965	758	11214	072.63E	22 27 00						
July 17, 1965	759	11215	047.96E	00 04 24						
"	759	11216	023.29E	01 41 47						
"	759	11217	001.37W	03 19 11						
"	759	11218	026.04W	04 56 35						
"	759	11219	050.71W	06 33 59						
"	759	11220	075.38W	08 11 23						
"	759	11221	100.05W	09 48 47						
"	759	11222	124.72W	11 26 10						
"	759	11223	149.39W	13 03 34						
"	759	11224	174.06W	14 40 58						
"	759	11225	161.26E	16 18 22						
"	759	11226	136.59E	17 55 46						
"	759	11227	111.92E	19 33 10						
"	759	11228	087.25E	21 10 34						
July 17, 1965	759	11229	062.58E	22 47 57						
July 18, 1965	760	11230	037.91E	00 25 21						
"	760	11231	013.24E	02 02 45						
"	760	11232	011.42W	03 40 09						
"	760	11233	036.09W	05 17 33						
"	760	11234	060.76W	06 54 57						
"	760	11235	085.43W	08 32 20						
"	760	11236	110.10W	10 09 44						
"	760	11237	134.77W	11 47 08						
"	760	11238	159.44W	13 24 32						
July 18, 1965	760	11239	175.88E	15 01 56						

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f _{t_o} (Min AAN)	n _o (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
July 18, 1965	760	11240	151.21E	16 39 20					
"	760	11241	126.54E	18 16 44	30.2	7.8	98.5	45.3	29.1
"	760	11242	101.87E	19 54 07					
"	760	11243	077.20E	21 31 31					
July 18, 1965	760	11244	052.53E	23 08 55					
July 19, 1965	761	11245	027.86E	00 46 19					
"	761	11246	003.19E	02 23 43					
"	761	11247	021.47W	04 01 07					
"	761	11248	046.15W	05 38 30					
"	761	11249	070.81W	07 15 54					
"	761	11250	095.48W	08 53 18					
"	761	11251	120.16W	10 30 42					
"	761	11252	144.82W	12 08 06					
"	761	11253	169.50W	13 45 30					
"	761	11254	165.82E	15 22 53					
"	761	11255	141.15E	17 00 17	30.9	7.3	98.6	44.4	28.9
"	761	11256	116.48E	18 37 41					
"	761	11257	091.81E	20 15 05					
"	761	11258	067.14E	21 52 29					
July 19, 1965	761	11259	042.47E	23 29 53					
July 20, 1965	762	11260	017.82E	01 07 09					
"	762	11261	006.84W	02 44 33					
"	762	11262	031.51W	04 21 57					
"	762	11263	056.18W	05 59 21					
"	762	11264	080.85W	07 36 44					
"	762	11265	105.52W	09 14 08					
July 20, 1965	762	11266	130.19W	10 51 32					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	GAMMA (Deg)
July 20, 1965	762	11267	154.86W	12 28 56					
"	762	11268	179.53W	14 06 19					
"	762	11269	155.79E	15 43 43					
"	762	11270	131.12E	17 21 07	31.7	6.7	98.8	43.4	28.8
"	762	11271	106.45E	18 58 31					
"	762	11272	081.78E	20 35 55					
"	762	11273	057.11E	22 13 19					
July 20, 1965	762	11274	032.44E	23 50 42					
July 21, 1965	763	11275	007.77E	01 28 06					
"	763	11276	016.89W	03 05 30					
"	763	11277	041.56W	04 42 54					
"	763	11278	066.23W	06 20 17					
"	763	11279	090.90W	07 57 41					
"	763	11280	115.57W	09 35 05					
"	763	11281	140.24W	11 12 29					
"	763	11282	164.91W	12 49 53					
"	763	11283	170.41E	14 27 16					
"	763	11284	145.74E	16 04 40	32.5	5.7	99.2	42.7	28.7
"	763	11285	121.07E	17 42 04					
"	763	11286	096.40E	19 19 28					
"	763	11287	071.73E	20 56 52					
July 21, 1965	763	11288	047.06E	22 34 15					
July 22, 1965	764	11289	022.39E	00 11 39					
"	764	11290	002.27W	01 49 03					
"	764	11291	026.94W	03 26 27					
"	764	11292	051.61W	05 03 51					
July 22, 1965	764	11293	076.28W	06 41 14					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
July 22, 1965	764	11294	100. 95W	08 18 38				
	"	764	11295	125. 62W	09 56 02			
	"	764	11296	150. 29W	11 33 26			
	"	764	11297	174. 96W	13 10 49			
	"	764	11298	160. 36E	14 48 13			
	"	764	11299	135. 69E	16 25 37			
	"	764	11300	111. 02E	18 03 01			
	"	764	11301	086. 35E	19 40 25			
	"	764	11302	061. 68E	21 17 48			
	July 22, 1965	764	11303	037. 01E	22 55 12			
July 23, 1965	765	11304	012. 34E	00 32 36				
	"	765	11305	012. 32W	02 10 00			
	"	765	11306	036. 99W	03 47 24			
	"	765	11307	061. 66W	05 24 47			
	"	765	11308	086. 33W	07 02 11			
	"	765	11309	111. 00W	08 39 35			
	"	765	11310	135. 67W	10 16 59			
	"	765	11311	160. 34W	11 54 23			
	"	765	11312	174. 98E	13 31 46			
	"	765	11313	150. 31E	15 09 10			
July 23, 1965	765	11314	125. 64E	16 46 34				
	"	765	11315	100. 97E	18 23 58			
	"	765	11316	076. 30E	20 01 22			
	"	765	11317	051. 63E	21 38 45			
	July 23, 1965	765	11318	026. 96E	23 16 09	34. 3	2. 5	100. 1
July 24, 1965	766	11319	002. 29E	00 53 33				
	766	11320	022. 37W	02 30 57				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
July 24, 1965	766	11321	047.04W	04 08 21				
"	766	11322	071.71W	05 45 44				
"	766	11323	096.38W	07 23 08				
"	766	11324	121.05W	09 00 32				
"	766	11325	145.72W	10 37 56				
"	766	11326	170.39W	12 15 19				
"	766	11327	164.93E	13 52 43				
"	766	11328	140.26E	15 30 07				
"	766	11329	115.59E	17 07 31				
"	766	11330	090.92E	18 44 55				
"	766	11331	066.25E	20 22 18				
"	766	11332	041.58E	21 59 42				
July 24, 1965	766	11333	016.91E	23 37 06	35.0	1.1	100.1	40.2
								29.0
July 25, 1965	767	11334	007.75W	01 14 30				
"	767	11335	032.42W	02 51 54				
"	767	11336	057.09W	04 29 17				
"	767	11337	081.76W	06 06 41				
"	767	11338	106.43W	07 44 05				
"	767	11339	131.10W	09 21 29				
"	767	11340	155.77W	10 58 53				
"	767	11341	179.55E	12 36 16				
"	767	11342	154.88E	14 13 40				
"	767	11343	130.21E	15 51 04	35.5	0.3	99.9	39.3
"	767	11344	105.54E	17 28 28				29.1
"	767	11345	080.87E	19 05 51				
"	767	11346	056.20E	20 43 15				
July 25, 1965	767	11347	031.53E	22 20 39				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
July 25, 1965	767	11348	006.86E	23 58 03	35.8	-0.0	99.9	38.9
July 26, 1965	"	768	11349	017.80W	01 35 27			
	"	768	11350	042.47W	03 12 50			
	"	768	11351	067.14W	04 50 14			
	"	768	11352	091.81W	06 27 38			
	"	768	11353	116.48W	08 05 02			
	"	768	11354	141.15W	09 42 26			
	"	768	11355	165.82W	11 19 49			
	"	768	11356	169.50E	12 57 13			
	"	768	11357	144.83E	14 34 37			
	"	768	11358	120.16E	16 12 01			
	"	768	11359	095.49E	17 49 25			
	"	768	11360	070.82E	19 26 48			
	"	768	11361	046.15E	21 04 12			
	"	768	11362	021.48E	22 41 36	36.5	-1.5	100.0
July 26, 1965							37.9	29.3
July 27, 1965	"	769	11363	003.22W	00 19 01			
	"	769	11364	027.89W	01 56 25			
	"	769	11365	052.56W	03 33 49			
	"	769	11366	077.23W	05 11 12			
	"	769	11367	101.90W	06 48 36			
	"	769	11368	126.57W	08 26 00			
	"	769	11369	151.24W	10 03 24			
	"	769	11370	175.91W	11 40 47			
	"	769	11371	159.41E	13 18 11			
	"	769	11372	134.74E	14 55 35	37.0		
	"	769	11373	110.07E	16 32 59	-2.8		
July 27, 1965		769	11374	085.40E	18 10 23		100.2	37.3

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	GAMMA (Deg)
July 27, 1965	769	11375	060.73E	19 47 46					
"	769	11376	036.06E	21 25 10					
July 27, 1965	769	11377	011.39E	23 02 34					
July 28, 1965	770	11378	013.27W	00 39 58					
"	770	11379	037.94W	02 17 22					
"	770	11380	062.61W	03 54 45					
"	770	11381	087.28W	05 32 09					
"	770	11382	111.95W	07 09 33					
"	770	11383	136.62W	08 46 57					
"	770	11384	161.29W	10 24 21					
"	770	11385	174.03E	12 01 44					
"	770	11386	149.36E	13 39 08					
"	770	11387	124.69E	15 16 32					
"	770	11388	100.02E	16 53 56					
"	770	11389	075.35E	18 31 20					
"	770	11390	050.68E	20 08 43					
"	770	11391	026.01E	21 46 07					
July 28, 1965	770	11392	001.34E	23 23 31					
July 29, 1965	771	11393	023.32W	01 00 55					
"	771	11394	047.99W	02 38 19					
"	771	11395	072.66W	04 15 42					
"	771	11396	097.33W	05 53 06					
"	771	11397	122.00W	07 30 30					
"	771	11398	146.67W	09 07 54					
"	771	11399	171.34W	10 45 17					
"	771	11400	163.98E	12 22 41					
July 29, 1965	771	11401	139.31E	14 00 05	38.5	-6.1	100.0	34.9	30.1

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (Hr Min Sec)	f Time (UT) (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
July 29, 1965	771	11402	114.64E	15 37 29				
"	771	11403	089.97E	17 14 53				
"	771	11404	065.30E	18 52 16				
"	771	11405	040.63E	20 29 40				
"	771	11406	015.96E	22 07 04				
July 29, 1965	771	11407	008.70W	23 44 28				
July 30, 1965	772	11408	033.37W	01 21 52				
"	772	11409	058.04W	02 59 15				
"	772	11410	082.71W	04 36 39				
"	772	11411	107.38W	06 14 03				
"	772	11412	132.05W	07 51 27				
"	772	11413	156.72W	09 28 51				
"	772	11414	178.60E	11 06 14				
"	772	11415	153.93E	12 43 38				
"	772	11416	129.26E	14 21 02				
"	772	11417	104.59E	15 58 26				
"	772	11418	079.92E	17 35 50				
"	772	11419	055.25E	19 13 13				
"	772	11420	030.58E	20 50 37				
July 30, 1965	772	11421	005.91E	22 28 01				
July 31, 1965	773	11422	018.75W	00 05 25				
"	773	11423	043.42W	01 42 49				
"	773	11424	068.09W	03 20 12				
"	773	11425	092.76W	04 57 36				
"	773	11426	117.43W	06 35 00				
"	773	11427	142.10W	08 12 24				
July 31, 1965	773	11428	166.77W	09 49 47				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
July 31, 1965	773	11429	168.55E	11 27 11				
"	773	11430	143.88E	13 04 35				
"	773	11431	119.21E	14 41 59				
"	773	11432	94.54E	16 19 23				
"	773	11433	69.87E	17 56 46				
"	773	11434	045.20E	19 34 10				
"	773	11435	020.53E	21 11 34				
July 31, 1965	773	11436	004.13W	22 48 58	39.8	-10.2	98.5	33.1
								32.7
August 1, 1965	774	11437	028.80W	00 26 21				
"	774	11438	053.47W	02 03 45				
"	774	11439	078.14W	03 41 09				
"	774	11440	102.81W	05 18 33				
"	774	11441	127.48W	06 55 57				
"	774	11442	152.15W	08 33 20				
"	774	11443	176.82W	10 10 44				
"	774	11444	158.50E	11 48 08	39.8	-12.2	98.7	33.9
"	774	11445	133.83E	13 25 32				33.3
"	774	11446	109.16E	15 02 56				
"	774	11447	084.49E	16 40 19				
"	774	11448	059.82E	18 17 43				
"	774	11449	035.15E	19 55 07				
"	774	11450	010.48E	21 32 31				
August 1, 1965	774	11451	014.18W	23 09 55				
August 2, 1965	775	11452	038.85W	00 47 18	39.9	-14.2	98.9	34.7
"	775	11453	063.52W	02 24 42				33.9
"	775	11454	088.19W	04 02 06				
August 2, 1965	775	11455	112.86W	05 39 30				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	j GAMMA (Deg)
August 2, 1965									
"	775	11456	137.53W	07 16 53					
"	775	11457	162.20W	08 54 17					
"	775	11458	173.12E	10 31 41					
"	775	11459	148.45E	12 09 05	40.0	-16.0	99.1	35.4	34.4
MAC SWITCH CHANGED FROM POSITION 0 TO 11									
"	775	11460	123.78E	13 46 29					
"	775	11461	099.11E	15 23 52					
"	775	11462	074.44E	17 01 16					
"	775	11463	049.77E	18 38 40					
"	775	11464	025.10E	20 16 04					
"	775	11465	000.43E	21 53 28					
"	775	11466	024.23W	23 30 51	41.3	-14.0	98.0	30.1	34.0
August 2, 1965									
"	776	11467	048.92W	01 08 16					
"	776	11468	073.59W	02 45 40					
"	776	11469	098.26W	04 23 04					
"	776	11470	122.93W	06 00 28					
"	776	11471	147.60W	07 37 51					
"	776	11472	172.27W	09 15 15					
"	776	11473	163.05E	10 52 39					
"	776	11474	138.38E	12 30 03					
"	776	11475	113.71E	14 07 27					
"	776	11476	089.04E	15 44 51					
"	776	11477	064.37E	17 22 14					
"	776	11478	039.70E	18 59 38					
"	776	11479	015.03E	20 37 02					
"	776	11480	009.63W	22 14 26					
August 3, 1965	776	11481	034.30W	23 51 49					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	n _o (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
August 5, 1965	778	111508	019.60E	19 41 32					
"	778	111509	005.06W	21 18 56					
August 5, 1965	778	111510	029.73W	22 56 19	46.2	-13.8	95.9	14.7	38.3
August 6, 1965	779	111511	054.40W	00 33 43	46.2	-14.2	95.9	15.0	38.3
"	779	111512	079.07W	02 11 07					
"	779	111513	103.74W	03 48 31					
"	779	111514	128.41W	05 25 54					
"	779	111515	153.08W	07 03 18					
"	779	111516	177.75W	08 40 42					
"	779	111517	157.57E	10 18 06					
"	779	111518	132.90E	11 55 30	46.5	-15.0	96.4	15.0	38.3
"	779	111519	108.23E	13 32 53					
"	779	111520	083.56E	15 10 17					
"	779	111521	058.89E	16 47 41					
"	779	111522	034.22E	18 25 05					
"	779	111523	009.55E	20 02 29					
"	779	111524	015.11W	21 39 52					
August 6, 1965	779	111525	039.78W	23 17 16	45.7	-19.4	96.3	19.1	38.5
August 7, 1965	780	111526	064.45W	00 54 40	45.6	-19.8	96.3	19.3	38.5
"	780	111527	089.12W	02 32 04					
"	780	111528	113.79W	04 09 27					
"	780	111529	138.46W	05 46 51					
"	780	111530	163.13W	07 24 15					
"	780	111531	172.19E	09 01 39					
"	780	111532	147.52E	10 39 03	45.4	-22.0	96.5	21.0	38.7
"	780	111533	122.85E	12 16 27					
August 7, 1965	780	111534	098.18E	13 53 50					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
August 7, 1965	780	11535	073.51E	15 31 14	45.3	-23.1	96.6	21.8
"	780	11536	048.84E	17 08 38				38.8
"	780	11537	024.17E	18 46 02				
"	780	11538	000.49W	20 23 25				
"	780	11539	025.16W	22 00 49				
August 7, 1965	780	11540	049.83W	23 38 13	45.1	-24.9	96.8	23.2
								39.0
August 8, 1965	781	11541	074.50W	01 15 37	45.1	-25.3	96.9	23.5
"	781	11542	099.17W	02 53 01				
"	781	11543	123.84W	04 30 24				
"	781	11544	148.51W	06 07 48				
"	781	11545	173.18W	07 45 12				
"	781	11546	162.14E	09 22 36				
"	781	11547	137.47E	10 59 59				
"	781	11548	112.80E	12 37 23				
"	781	11549	088.13E	14 14 47				
"	781	11550	063.46E	15 52 11				
"	781	11551	038.79E	17 29 35				
"	781	11552	014.12E	19 06 58				
"	781	11553	010.54W	20 44 22				
"	781	11554	035.21W	22 21 46				
August 8, 1965	781	11555	059.88W	23 59 10	44.6	-30.5	97.8	27.1
								39.4
August 9, 1965	782	11556	084.55W	01 36 33				
"	782	11557	109.22W	03 13 57				
"	782	11558	133.89W	04 51 21	44.5	-31.6	98.0	27.9
"	782	11559	158.56W	06 28 45				39.5
"	782	11560	176.76E	08 06 09				
August 9, 1965	782	11561	152.09E	09 43 32	44.3	-32.6	98.2	28.7
								39.7

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t_o (Min AAN)	g n_o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	j GAMMA (Deg)
MAC SWITCH CHANGED FROM POSITION 2 TO 11									
August 9, 1965	782	11562	127.42E	11 20 56	44.3	-33.0	98.3	28.9	39.7
"	782	11563	102.75E	12 58 20					
"	782	11564	078.08E	14 35 44					
"	782	11565	053.41E	16 13 08	45.0	-31.8	97.2	26.5	40.6
"	782	11566	028.74E	17 50 31					
"	782	11567	004.07E	19 27 55					
"	782	11568	020.59W	21 05 19					
August 9, 1965	782	11569	045.26W	22 42 43					
August 10, 1965									
"	783	11570	069.96W	00 20 10					
"	783	11571	094.63W	01 57 34					
"	783	11572	119.31W	03 34 57					
"	783	11573	143.97W	05 12 21					
"	783	11574	168.64W	06 49 45	47.0	-28.1	94.2	19.1	43.9
"	783	11575	166.68E	08 27 09					
"	783	11576	142.01E	10 04 33					
"	783	11577	117.34E	11 41 57					
"	783	11578	092.67E	13 19 20	47.8	-26.4	93.0	15.9	45.6
"	783	11579	067.99E	14 56 44					
"	783	11580	043.33E	16 34 08					
"	783	11581	018.66E	18 11 32					
"	783	11582	006.00W	19 48 55					
"	783	11583	030.67W	21 26 19					
August 10, 1965	783	11584	055.34W	23 03 43					
August 11, 1965	784	11585	080.02W	00 41 07					
"	784	11586	104.68W	02 18 31					
August 11, 1965	784	11587	129.35W	03 55 55					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RASA (Deg)	i DEC SA (Deg)	GAMMA (Deg)
August 11, 1965	784	11588	154.03W	05 33 18					
"	784	11589	178.69W	07 10 42					
"	784	11590	156.63E	08 48 06	50.3	-21.3	89.7	6.0	51.2
"	784	11591	131.96E	10 25 30					
"	784	11592	107.28E	12 02 53					
"	784	11593	082.62E	13 40 17					
"	784	11594	057.95E	15 17 41					
"	784	11595	033.27E	16 55 05					
"	784	11596	008.61E	18 32 29					
"	784	11597	016.05W	20 09 53					
"	784	11598	040.72W	21 47 16					
"	784	11599	065.40W	23 24 40					
August 11, 1965									
August 12, 1965	785	11600	090.07W	01 02 04					
"	785	11601	114.74W	02 39 28					
"	785	11602	139.40W	04 16 52	52.8	-16.3	87.1	-3.9	57.3
"	785	11603	164.07W	05 54 15	53.0	-15.8	87.0	-4.8	57.8
"	785	11604	171.24E	07 31 39					
"	785	11605	146.58E	09 09 03					
"	785	11606	121.91E	10 46 27	53.6	-14.6	86.5	-7.3	59.4
"	785	11607	097.23E	12 23 51	53.8	-14.2	86.3	-8.1	59.9
"	785	11608	072.56E	14 01 14					
"	785	11609	047.89E	15 38 38					
"	785	11610	023.22E	17 16 02					
"	785	11611	001.44W	18 53 26					
"	785	11612	026.10W	20 30 50					
"	785	11613	050.77W	22 08 13					
August 12, 1965	785	11614	075.45W	23 45 37					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f _o (Min AN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
August 13, 1965	786	11615	100.12W	01 23 01				
"	786	11616	124.79W	03 00 25				
"	786	11617	149.46W	04 37 49				
"	786	11618	174.13W	06 15 12				
"	786	11619	161.20E	07 52 36	56.4	-9.2	84.7	-18.4
"	786	11620	136.52E	09 30 00				
"	786	11621	111.85E	11 07 24				
"	786	11622	087.18E	12 44 48	57.0	-7.9	84.4	-21.1
"	786	11623	062.51E	14 22 11				
"	786	11624	037.84E	15 59 35				
"	786	11625	013.18E	17 36 59				
"	786	11626	011.48W	19 14 23				
"	786	11627	036.16W	20 51 47				
August 13, 1965	786	11628	060.83W	22 29 10				
August 14, 1965	787	11629	085.50W	00 06 34				
"	787	11630	110.17W	01 43 58				
"	787	11631	134.84W	03 21 22				
"	787	11632	159.51W	04 58 46				
"	787	11633	175.81E	06 36 10				
"	787	11634	151.14E	08 13 33	59.6	-2.7	83.8	-31.7
"	787	11635	126.47E	09 50 57				
"	787	11636	101.80E	11 28 21				
"	787	11637	077.13E	13 05 45	60.3	-1.5	83.8	-34.4
"	787	11638	052.47E	14 43 09				
"	787	11639	027.79E	16 20 32				
"	787	11640	003.12E	17 57 56				
August 14, 1965	787	11641	021.54W	19 35 20				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e t _o (Min AAN) (Hr Min Sec)	f n _o (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
August 14, 1965	787	11642	046.21W	21 12 44				
August 14, 1965	787	11643	070.88W	22 50 08				
August 15, 1965	788	11644	095.55W	00 27 31				
"	788	11645	120.22W	02 04 55				
"	788	11646	144.89W	03 42 19				
"	788	11647	169.56W	05 19 43				
"	788	11648	165.76E	06 57 06	62.7	2.0		
"	788	11649	141.09E	08 34 30				
"	788	11650	116.42E	10 11 54				
"	788	11651	091.76E	11 49 18	63.4	2.5		
"	788	11652	067.08E	13 26 42				
"	788	11653	042.41E	15 04 05				
"	788	11654	017.74E	16 41 29				
"	788	11655	006.92W	18 18 53				
"	788	11656	031.59W	19 56 17				
"	788	11657	056.26W	21 33 41				
August 15, 1965	788	11658	080.93W	23 11 04				
August 16, 1965	789	11659	105.60W	00 48 28				
"	789	11660	130.27W	02 25 52				
"	789	11661	154.94W	04 03 16				
"	789	11662	179.61W	05 40 40				
"	789	11663	155.71E	07 18 04	66.1	4.1		
"	789	11664	131.04E	08 55 27				
"	789	11665	106.37E	10 32 51				
"	789	11666	081.70E	12 10 15	66.8	4.4		
"	789	11667	057.03E	13 47 39				
August 16, 1965	789	11668	032.36E	15 25 03				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	GAMMA (Deg)
August 16, 1965	789	11669	007.69E	17 02 26					
"	789	11670	016.97W	18 39 50					
"	789	11671	041.64W	20 17 14					
"	789	11672	066.31W	21 54 38					
August 16, 1965	789	11673	090.98W	23 32 02					
August 17, 1965	790	11674	115.66W	01 09 21					
"	790	11675	140.32W	02 46 45					
"	790	11676	165.00W	04 24 09					
"	790	11677	170.33E	06 01 33					
"	790	11678	145.66E	07 38 57					
"	790	11679	120.98E	09 16 20					
"	790	11680	096.31E	10 53 44	69.9	5.0	113.4	-60.6	79.4
"	790	11681	071.65E	12 31 08					
"	790	11682	046.97E	14 08 32					
"	790	11683	022.31E	15 45 55					
"	790	11684	002.35W	17 23 19					
"	790	11685	027.03W	19 00 43					
"	790	11686	051.70W	20 38 07					
"	790	11687	076.36W	22 15 30					
August 17, 1965	790	11688	101.04W	23 52 54					
August 18, 1965	791	11689	125.70W	01 30 18					
"	791	11690	150.37W	03 07 42					
"	791	11691	175.04W	04 45 06					
"	791	11692	160.28E	06 22 29					
"	791	11693	135.60E	07 59 53					
August 18, 1965	791	11694	110.94E	09 37 17	73.1	4.8	132.3	-62.4	76.9

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN) (Deg)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
August 18, 1965	791	11695	086.27E	11 14 41				
"	791	11696	061.60E	12 52 04				
"	791	11697	036.93E	14 29 28				
"	791	11698	012.26E	16 06 52				
"	791	11699	012.40W	17 44 16				
"	791	11700	037.07W	19 21 40				
"	791	11701	061.74W	20 59 03				
August 18, 1965	791	11702	086.41W	22 36 27				
August 19, 1965	792	11703	111.08W	00 13 51				
"	792	11704	135.75W	01 51 15				
"	792	11705	160.42W	03 28 38				
"	792	11706	174.90E	05 06 02				
"	792	11707	150.23E	06 43 26				
"	792	11708	125.56E	08 20 50				
"	792	11709	100.89E	09 58 13				
"	792	11710	076.21E	11 35 37				
"	792	11711	051.55E	13 13 01				
"	792	11712	026.88E	14 50 25				
"	792	11713	002.21E	16 27 48				
"	792	11714	022.45W	18 05 12				
"	792	11715	047.12W	19 42 36				
"	792	11716	071.79W	21 20 00				
August 19, 1965	792	11717	096.46W	22 57 24				
August 20, 1965	793	11718	121.13W	00 34 47				
"	793	11719	145.80W	02 12 11				
August 20, 1965	793	11720	170.47W	03 49 35				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f _o n _o	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
August 20, 1965	793	111721	164.85E	05 26 59				
"	793	111722	140.18E	07 04 22				
"	793	111723	115.51E	08 41 46				
"	793	111724	090.84E	10 19 10	80.1	-1.0	165.3	-48.9
"	793	111725	066.17E	11 56 34				
"	793	111726	041.50E	13 33 57				
"	793	111727	016.83E	15 11 21				
"	793	111728	007.83W	16 48 45				
"	793	111729	032.50W	18 26 09				
"	793	111730	057.17W	20 03 32				
"	793	111731	081.84W	21 40 56				
August 20, 1965	793	111732	106.51W	23 18 20				
August 21, 1965	794	111733	131.18W	00 55 44	82.1	-3.8	169.8	-42.2
"	794	111734	155.85W	02 33 08				57.5
"	794	111735	179.47E	04 10 31				
"	794	111736	154.80E	05 47 55	82.8	-4.8	170.6	-39.8
"	794	111737	130.13E	07 25 19				55.4
"	794	111738	105.46E	09 02 43				
"	794	111739	080.79E	10 40 06	83.5	-5.8	171.4	-37.3
"	794	111740	056.12E	12 17 30				53.4
"	794	111741	031.45E	13 54 54				
"	794	111742	006.78E	15 32 18				
"	794	111743	017.88W	17 09 41				
"	794	111744	042.55W	18 47 05				
"	794	111745	067.22W	20 24 29				
August 21, 1965	794	111746	091.89W	22 01 53	85.2	-8.2	173.2	-31.5
								48.6

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f _{t_o} (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
August 21, 1965	794	11747	116.56W	23 39 17				
August 22, 1965	795	11748	141.23W	01 16 40	85.6	-8.8	173.6	-29.9 47.2
"	795	11749	165.90W	02 54 04				
"	795	11750	169.42E	04 31 28				
"	795	11751	144.75E	06 08 52				
"	795	11752	120.08E	07 46 15				
"	795	11753	095.41E	09 23 39				
"	795	11754	070.74E	11 01 03				
"	795	11755	046.07E	12 38 27				
"	795	11756	021.40E	14 15 50				
"	795	11757	003.26W	15 53 14				
"	795	11758	027.93W	17 30 38				
"	795	11759	052.60W	19 08 02				
"	795	11760	077.27W	20 45 25				
August 22, 1965	795	11761	101.94W	22 22 49	88.7	-13.0	175.4	-18.7 38.3
August 23, 1965	796	11762	126.61W	00 00 13				
"	796	11763	151.28W	01 37 37				
"	796	11764	175.95W	03 15 00				
"	796	11765	159.37E	04 52 24	89.7	-14.3	175.5	-15.3 35.7
"	796	11766	134.70E	06 29 48				
"	796	11767	110.03E	08 07 12				
"	796	11768	085.37E	09 44 36				
"	796	11769	060.69E	11 21 59				
"	796	11770	036.02E	12 59 23				
"	796	11771	011.35E	14 36 47				
August 23, 1965	796	11772	013.31W	16 14 11				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Longitude (Hr Min Sec)	f Time (UT) (Min AAN)	g n _o (Deg)	h RA SA (Deg)	i DEC SA (Deg)	GAMMA (Deg)
August 23, 1965	796	11773	037.98W	17 51 34					
"	796	11774	062.65W	19 28 58					
"	796	11775	087.32W	21 06 22					
August 23, 1965	796	11776	111.99W	22 43 46					
August 24, 1965	797	11777	136.70W	00 21 14					
"	797	11778	161.37W	01 58 38	92.7	-18.6	175.5	-4.1	27.6
"	797	11779	173.95E	03 36 02					
"	797	11780	149.28E	05 13 26	93.2	-19.2	175.4	-2.4	26.6
"	797	11781	124.61E	06 50 50					
"	797	11782	099.94E	08 28 13					
"	797	11783	075.27E	10 05 37					
"	797	11784	050.60E	11 43 01					
"	797	11785	025.93E	13 20 25					
"	797	11786	001.27E	14 57 49					
"	797	11787	023.40W	16 35 12					
"	797	11788	048.07W	18 12 36	95.1	-21.8	174.8	4.6	22.6
"	797	11789	072.74W	19 50 00					
"	797	11790	097.41W	21 27 24					
August 24, 1965	797	11791	122.08W	23 04 47	95.8	-22.8	174.6	7.2	21.2
August 25, 1965	798	11792	146.75W	00 42 11					
"	798	11793	171.42W	02 19 35					
"	798	11794	163.91E	03 56 59	96.4	-23.8	174.0	9.4	20.6
"	798	11795	139.23E	05 34 23					
"	798	11796	114.56E	07 11 46					
"	798	11797	089.90E	08 49 10					
August 25, 1965	798	11798	065.23E	10 26 34					

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE (Deg)	e Time (UT) (Hr Min Sec)	f t _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
August 25, 1965	798	11799	040.55E	12 03 58				
"	798	11800	015.88E	13 41 22				
"	798	11801	008.77W	15 18 45				
"	798	11802	033.45W	16 56 09				
"	798	11803	058.12W	18 33 33				
"	798	11804	082.78W	20 10 57				
"	798	11805	107.46W	21 48 21				
August 25, 1965	798	11806	132.13W	23 25 44				
August 26, 1965	799	11807	156.79W	01 03 08				
"	799	11808	178.52E	02 40 32				
"	799	11809	153.86E	04 17 56				
"	799	11810	129.19E	05 55 20				
"	799	11811	104.51E	07 32 43				
"	799	11812	079.84E	09 10 07				
"	799	11813	055.18E	10 47 31				
"	799	11814	030.50E	12 24 55				
"	799	11815	005.83E	14 02 18				
"	799	11816	018.82W	15 39 42				
"	799	11817	043.50W	17 17 06	3.5	-31.8	167.6	26.0
"	799	11818	068.17W	18 54 30				
"	799	11819	092.83W	20 31 54	3.8	-32.5	166.9	27.4
MAC SWITCH CHANGED FROM POSITION 11 TO 0								
"	799	11820	117.51W	22 09 17	3.8	-32.3	166.9	27.3
August 26, 1965	799	11821	142.18W	23 46 41				
August 27, 1965	800	11822	166.85W	01 24 05	3.9	-31.9	166.8	27.3
"	800	11823	168.47E	03 01 29				
"	800	11824	143.80E	04 38 53				
August 27, 1965	800	11825	119.13E	06 16 16				

TABLE A-2
TIROS VII OPERATIONAL ATTITUDE DATA

a DATE	b JULIAN DAY	c ORBIT NUMBER	d ASCENDING NODE Longitude (Deg)	e Time (UT) (Hr Min Sec)	f n _o (Min AAN)	g RA SA (Deg)	h DEC SA (Deg)	i GAMMA (Deg)
August 27, 1965	800	11826	094.46E	07 53 40				
"	800	11827	069.79E	09 31 04				
"	800	11828	045.13E	11 08 28				
"	800	11829	020.45E	12 45 51				
"	800	11830	004.21W	14 23 15				
"	800	11831	028.87W	16 00 39				
"	800	11832	053.55W	17 38 03				
"	800	11833	078.22W	19 15 27				
"	800	11834	102.89W	20 52 50				
"	800	11835	127.56W	22 30 14	4.1	-29.9	165.9	27.2
August 27, 1965								19.5
157								
August 28, 1965	801	11836	152.23W	00 07 38	4.1	-29.7	165.9	27.2
"	801	11837	176.90W	01 45 02				
"	801	11838	158.42E	03 22 26				
"	801	11839	133.75E	04 59 49				
"	801	11840	109.09E	06 37 13				
"	801	11841	084.41E	08 14 37				
"	801	11842	059.74E	09 52 01				
"	801	11843	035.08E	11 29 25				
"	801	11844	010.40E	13 06 48				
"	801	11845	014.26W	14 44 12				
"	801	11846	038.92W	16 21 36				
"	801	11847	063.60W	17 59 00				
"	801	11848	088.27W	19 36 23				
"	801	11849	112.93W	21 13 47				
August 28, 1965	801	11850	137.61W	22 51 11	4.4	-27.4	165.1	26.9
								18.9

APPENDIX B

TIROS VII SUBPOINT TRACK

Table B-1 lists the orbital elements of TIROS VII for Epoch 18 April 1965, at 00 00 00 UT.

Figure B-1 presents a typical TIROS VII orbital track on a Mercator map. A "slide rule" version of this figure is included in Volume I, and provides a convenient method for spatial location of the satellite using the Ascending Node longitudes given in Table A-2. If Volume I is not available, a substitute can be manufactured by tracing the orbit track onto transparent material. The tic-marks on the track are in units of minutes after ascending node, labeled every tenth minute.

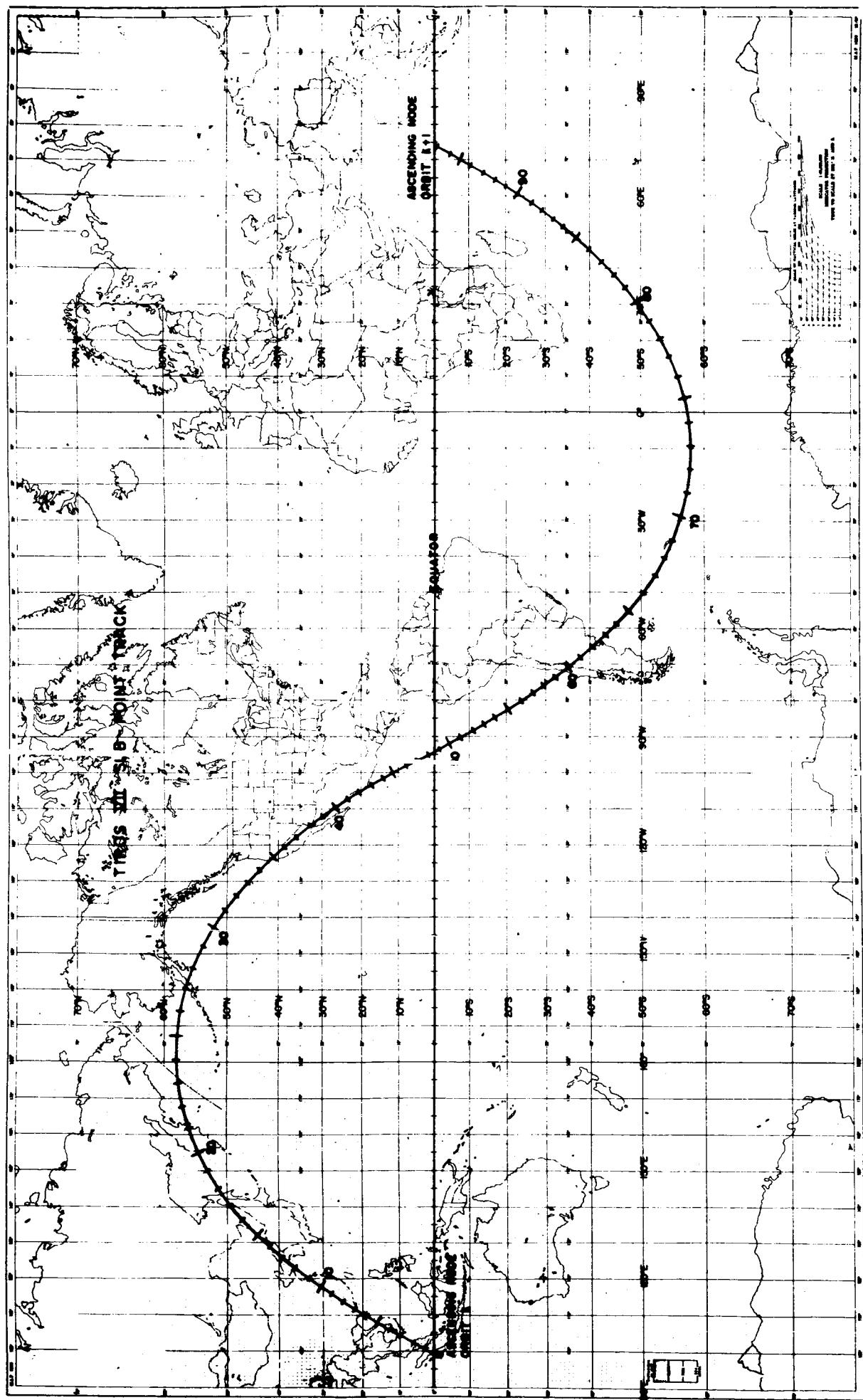
TABLE B-1

SAMPLE ORBITAL ELEMENTS

EPOCH 18 April 1965 00 00 00 Universal Time

SEMI-MAJOR AXIS	7013.13	KILOMETERS
ECCENTRICITY	0.00184	
INCLINATION	58.234	DEGREES
MEAN ANOMALY	294.840	DEGREES
ARGUMENT OF PERIGEE	182.123	DEGREES
/MOTION	+ 1.3766	DEG/DAY
RIGHT ASCENSION OF ASCENDING NODE	322.148	DEGREES
/MOTION	- 3.7612	DEG/DAY
ANOMALISTIC PERIOD	97.41221	MINUTES
/MOTION	- 0.00003	MIN/DAY
HEIGHT OF PERIGEE	621.87	KILOMETERS
HEIGHT OF APOGEE	647.62	KILOMETERS
VELOCITY AT PERIGEE	27191.	KM/HR
VELOCITY AT APOGEE	27091.	KM/HR
GEOCENTRIC LATITUDE OF PERIGEE	- 01.805	DEGREES

FIG. B-1



REFERENCES

1. Goldshlak, L., 1962: TIROS III Attitude Summary, First Technical Summary Report, prepared for NASA, Aeronomy and Meteorology Division under Contract No. NAS 5-1204, Allied Research Associates, Inc., Boston, Massachusetts.
2. Bandeen, W.R. and W.P. Manger, 1960: "Angular Motion of the Spin Axis of the TIROS I Meteorological Satellite Due to Magnetic and Gravitational Torques," Journal of Geophysical Research, 65, (9), p. 2992.
3. U.S. Weather Bureau, Meteorological Satellite Activities, 1962: Documentation for TIROS III Television Data, Meteorological Satellite Laboratory, Report No. 9, Washington, D.C.
4. U.S. Weather Bureau, Department of Commerce, 1965: Catalogue of Meteorological Satellite Data - TIROS VII Television Cloud Photography, Key to Meteorological Records Documentation No. 5.37, Washington, D.C., (Part I covers orbits 1-2891; 19 June to 31 December 1963; Part II covers orbits 2891-5581/5580; 31 December 1963 to 30 June 1964; data for subsequent orbits will be published later.)
5. Goldshlak, L. and A. Zenuk, 1965: TIROS VII Attitude Summary, Volume I, Fifth Technical Summary Report under Contract No. NAS 5-1204, ARACON Geophysics Company, Concord, Massachusetts.
6. Zenuk, A., 1965: TIROS VII Attitude Summary, Volume II, Second Technical Summary Report under Contract No. NAS 5-9547, ARACON Geophysics Company, Concord, Massachusetts.